Colleges and Universities

Basic Student Charges
1988-89

DDS
Data Series

Pennsylvania Department of Education 1989

Colleges and Universities

Basic Student Charges
1988-89

This is one in a series of publications containing statistical summaries related to basic education, postsecondary education, and vocational education in Pennsylvania. For more detailed data, contact the Division of Data Services at (717) 787-2644.

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STATISTICAL HIGHLIGHTS

Institutional Category	Average Undergraduate Tuition, Fees, Room and Board, 1988-89 (nearest $100)	Average Yearly Increase Over 10-Year Period
State Universities	$ 4 600	8.4%
State-Related Commonwealth Universities	6 600	8.0%
Community Colleges	1 300 1/	8.1%
Private State-Aided Institutions	12 600	9.9%
Private Colleges and Universities	11 000	10.5%
Theological Seminaries . . .	4 700	6.4%
Private Junior Colleges . .	8 400	8.6%

1/ Tuition and required fees only

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OVERVIEW

The cost of attending Pennsylvania colleges and universities has increased at a faster rate than the cost of other consumable goods over the past decade. During the period 1979 through 1988, the consumer price index has seen an annual average increase of 5.2 percent, whereas the increases in the basic student charges (tuition, required fees, room and board) were between 6.4 percent and 10.5 percent as indicated in the statistical highlights. Increases at Pennsylvania private colleges and universities during this period were the highest among all categories of Pennsylvania colleges and universities at 10.5 percent.

During 1988-89, the cost of attending undergraduate programs at four-year institutions was the lowest at the state universities. Among institutions offering first-professional programs, the tuition charges for dentistry at the University of Pennsylvania were the highest ($19,075) followed by the Hahnemann University medical program ($17,092).

In 1986-87, Pennsylvania had the fifth highest average basic student charges among four-year public institutions in the nation. Pennsylvania public colleges and universities charged on the average $5,209 against the national average of $4,208. On the other hand, the average for Pennsylvania private four-year colleges and universities was the twelfth highest among the fifty states and the District of Columbia. Pennsylvania private colleges and universities charged on the average $10,689 for tuition, room and board as compared to the national average of $8,331.

The cost of attending two-year Pennsylvania public colleges during 1986-87 was the second highest in the nation. Pennsylvania two-year public institutions (including community colleges and two-year branch campuses) charged an average of $1,626 in tuition and fees compared to the national average of $660. On the other hand, the average tuition charges for Pennsylvania private two-year colleges were $4,284 compared to the national average of $3,684, thus ranking 8th in the nation.

TABLE 1

AVERAGE IN-STATE UNDERGRADUATE TUITION AND REQUIRED FEES BY INSTITUTIONAL CATEGORY ACADEMIC YEARS 1979-80 THROUGH 1988-89

Institutional Category	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89
State Universities	$ 1 052	$ 1 217	$ 1 381	$ 1 630	$ 1 645	$ 1 741	$ 1 790	$ 1 881	$ 2 038	$ 2 333
State-Related Commonwealth Universities	1 552	1 760	1 935	2 201	2 368	2 523	2 711	2 924	3 118	3 435
Community Colleges	659	724	827	880	937	977	1 041	1 106	1 182	1 278
Private State-Aided Institutions	3 529	3 973	4 529	5 101	5 684	6 162	6 666	7 269	7 971 1/	8 573
Private Colleges and Universities	3 211	3 563	4 022	4 517	4 967	5 403	5 907	6 416	6 990	7 623
Theological Seminaries	1 490	1 990	1 990	1 990	2 190	2 190	2 190	2 190	2 190	2 205
Private Junior Colleges	2 352	2 582	2 920	3 194	3 468	3 718	4 015	4 293	4 880	5 259

1/ Revised

Public institutions in general shared the highest increases in average in-state undergraduate tuition and required fees during the 1988-89 academic year. Specifically, the 1988-89 increase over 1987-88 at public institutions was: 14.5 percent at the state universities; 10.2 percent at the state-related commonwealth universities; and 8.1 percent at the community colleges. The rate of increase at private institutions was: 7.6 percent at the private state-aided institutions; 9.1 percent at the private colleges and universities; 0.7 percent at the theological seminaries; and 7.8 percent at the private junior colleges.

FIGURE 1
AVERAGE ANNUAL INCREASE IN UNDERGRADUATE TUITION AND REQUIRED FEES
1979-80 THROUGH 1988-89

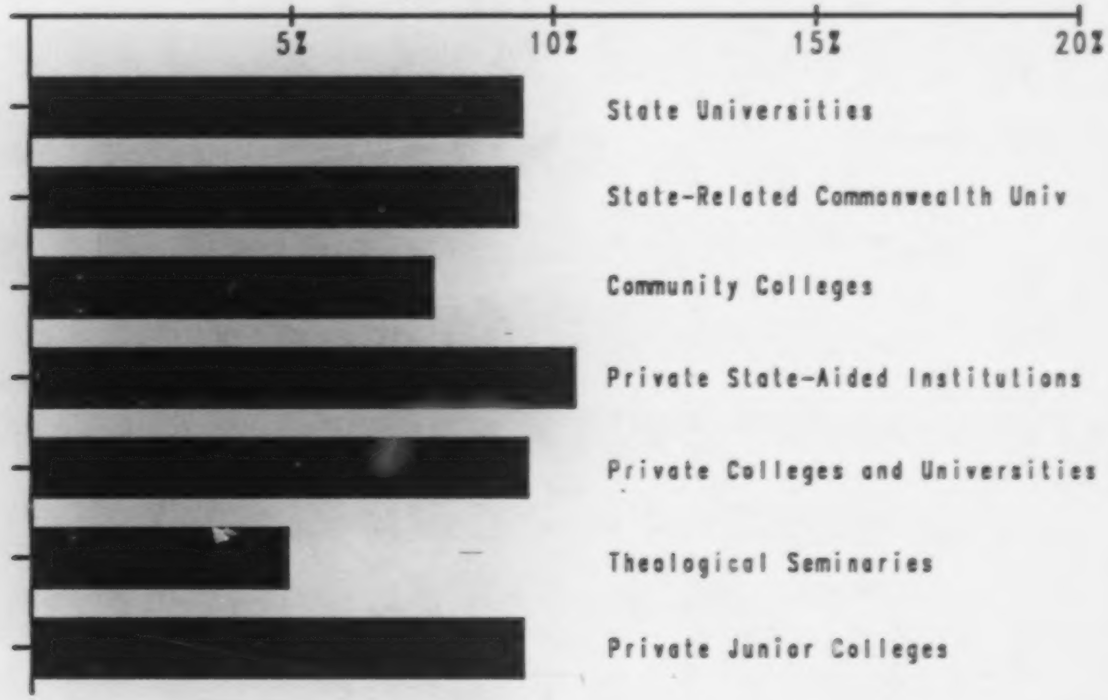

TABLE 2

AVERAGE COMBINED ROOM AND BOARD CHARGES BY INSTITUTIONAL CATEGORY
ACADEMIC YEARS 1979-80 THROUGH 1988-89

Institutional Category	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89
State Universities	$ 1 196	$ 1 303	$ 1 466	$ 1 640	$ 1 753	$ 1 834	$ 1 994	$ 2 077	$ 2 155	$ 2 290
State-Related Commonwealth Universities	1 756	1 907	2 178	2 390	2 546	2 671	2 804	2 946	3 023	3 167
Private State-Aided Institutions	1 867	2 124	2 366	2 620	2 875	2 898	3 121	3 452	3 813	3 985
Private Colleges and Universities	1 648	1 831	2 049	2 266	2 454	2 621	2 814	3 019	3 207	3 393
Theological Seminaries	1 279	1 479	1 602	1 741	1 854	2 023	2 146	2 354	2 448	2 531
Private Junior Colleges	1 645	1 835	2 060	2 255	2 440	2 551	2 697	2 799	2 978	3 139

Note: Community colleges are not listed here since room and board charges are not applicable.

The average combined room and board charges listed above include data for those institutions which reported charges for both room and board. As with in-state undergraduate tuition and required fees, the percentage increase since 1987-88 in average combined room and board charges were the highest for the state universities. By institutional category, the 1988-89 increase compared to the 1987-88 increase was 6.3 percent versus 3.8 percent at the state universities, 4.8 percent versus 2.6 percent at the state-related commonwealth universities; 4.5 percent versus 10.5 percent at the private state-aided institutions; 5.8 percent versus 6.2 percent at the private colleges and universities; 3.4 percent versus 4.0 percent at the theological seminaries; and 5.4 percent versus 6.4 percent at the private junior colleges.

FIGURE 2
AVERAGE ANNUAL INCREASE IN ROOM AND BOARD CHARGES
1979-80 THROUGH 1988-89

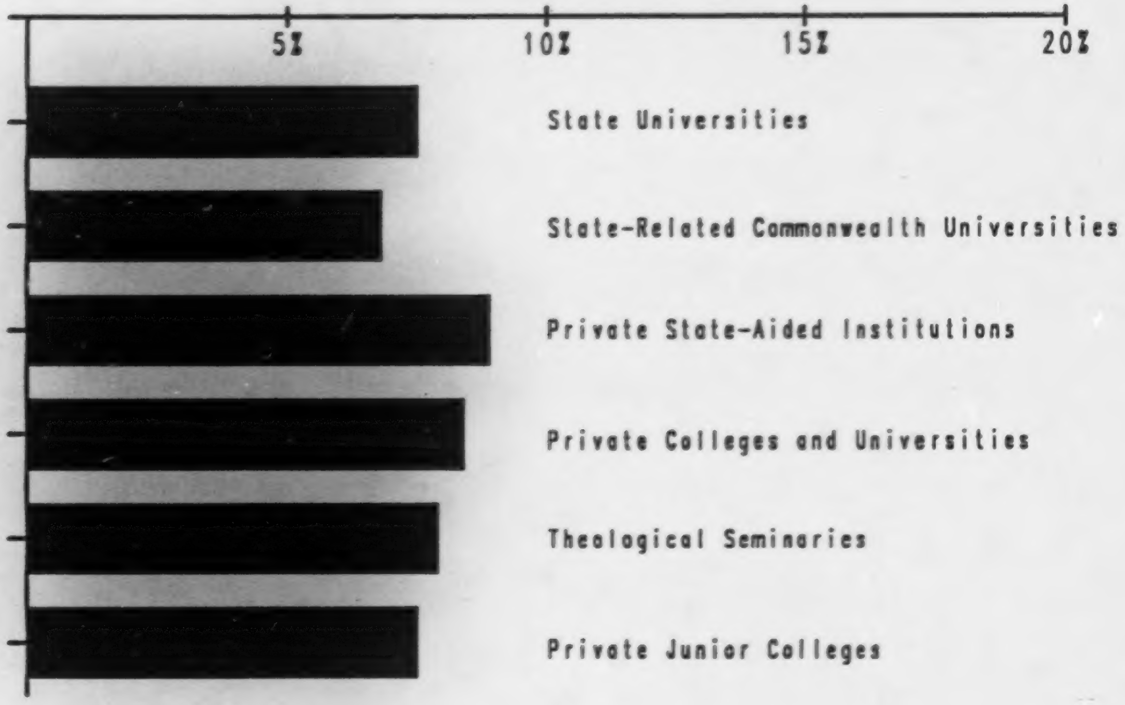

TABLE 3

AVERAGE BASIC STUDENT CHARGES BY INSTITUTIONAL CATEGORY
ACADEMIC YEAR 1988-89

Institutional Category	TUITION AND REQUIRED FEES						ROOM AND BOARD		
	Undergraduate		First-Professional		Graduate				
	In-State	Out-of-State	In-State	Out-of-State	In-State	Out-of-State	Combined Room and Board 1/	Room	Board
State Universities	$ 2 333	$ 3 751	$ -	$ -	$ 2 279	$ 2 551	$ 2 290	$ 1 328	$ 962
State-Related Commonwealth Universities	3 435	6 267	10 606	15 816	4 008	6 771	3 167	1 794	1 374
Community Colleges	1 278	3 984	-	-	-	-	-	-	-
Private State-Aided Institutions	8 573	8 573	14 493	15 336	8 559	8 559	3 985	2 595	1 968
Private Colleges and Universities	7 623	7 623	5 923	5 923	6 432	6 432	3 393	1 715	1 666
Theological Seminaries	2 205	2 205	3 359	3 359	3 011	3 011	2 531	915	1 586
Private Junior Colleges	5 259	5 259	-	-	-	-	3 139	1 674	1 528

- Data not applicable.

1/ Averages based on only those institutions having both room and board charges.

TABLE 4

BASIC STUDENT CHARGES AT COLLEGES AND UNIVERSITIES
ACADEMIC YEAR 1988-89

	TUITION AND REQUIRED FEES				ROOM AND BOARD		
	Undergraduate		Graduate		Combined Room and Board	Room	Board
	In-State	Out-of-State	In-State	Out-of-State			
STATE UNIVERSITIES							
Bloomsburg University	$ 2 290	$ 3 712	$ 2 190	$ 2 462	$ 2 064	$ 1 228	$ 836
California University	2 500	3 922	2 500	2 772	2 180	1 280	900
Cheyney University	2 340	3 702	2 250	2 527	2 556	1 372	1 184
Clarion University	2 358	3 780	2 304	2 576	2 210	1 210	1 000
East Stroudsburg University	2 214	3 636	2 210	2 482	2 438	1 543	895
Edinboro University	2 390	3 812	2 384	2 656	2 182	1 216	966
Indiana University							
Main Campus	2 269	3 691	2 231	2 503	2 320	1 244	1 076
Armstrong Campus	2 269	3 691	2 231	2 503	2 254	1 178	1 076
Punxsutawney Campus	2 231	3 653	2 193	3 615	2 254	1 178	1 076
Kutztown University	2 322	3 744	2 202	2 474	2 220	1 746	744
Lock Haven University	2 190	3 612	2 190	2 462	2 040	1 150	890
Mansfield University	2 355	3 777	2 230	2 502	2 256	1 306	950
Millersville University	2 350	3 772	2 234	2 506	2 550	1 440	1 110
Shippensburg University	2 396	3 818	2 290	2 562	2 282	1 292	990
Slippery Rock University	2 442	3 864	2 442	2 714	2 470	1 280	1 190
West Chester University	2 250	3 672	2 250	2 522	2 294	1 554	740
STATE-RELATED COMMONWEALTH UNIVERSITIES							
Lincoln University	2 400	3 500	3 250	4 850	2 600	1 350	1 250
Pennsylvania State University							
Main Campus	3 610	7 248	3 850	7 694	3 170	1 400	1 770
Allentown Campus	3 494	7 248	-	-	-	-	-
Altoona Campus	3 494	7 248	-	-	3 170	1 400	1 770
Beaver Campus	3 494	7 248	-	-	3 170	1 400	1 770
Berks Campus	3 494	7 248	-	-	-	-	-
Capital College	3 610	7 248	3 850	7 694	3 170	1 400	1 770
Delaware Campus	3 494	7 248	-	-	-	-	-
DuBois Campus	3 494	7 248	-	-	-	-	-
Erie Behrend College	3 610	7 248	3 850	7 694	3 170	1 400	1 770
Fayette Campus	3 494	7 248	-	-	-	-	-
Great Valley Graduate Center	-	-	185/cr	185/cr	-	-	-
Hazleton Campus	3 494	7 248	-	-	3 170	1 400	1 770
Hershey Medical Center	-	-	3 850	7 694	-	-	-
McKeesport Campus	3 494	7 248	-	-	3 170	1 400	1 770
Mont Alto Campus	3 494	7 248	-	-	3 170	1 400	1 770
New Kensington Campus	3 494	7 248	-	-	-	-	-
Ogontz Campus	3 494	7 248	-	-	-	-	-
Schuylkill Campus	3 494	7 248	-	-	3 170	1 400	1 770
Shenango Valley Campus	3 494	7 248	-	-	-	-	-
Wilkes-Barre Campus	3 494	7 248	-	-	-	-	-
Worthington-Scranton Campus	3 494	7 248	-	-	-	-	-
York Campus	3 494	7 248	-	-	-	-	-

TABLE 4

BASIC STUDENT CHARGES AT COLLEGES AND UNIVERSITIES
ACADEMIC YEAR 1988-89--Continued

	TUITION AND REQUIRED FEES				ROOM AND BOARD		
	Undergraduate		Graduate				
	In-State	Out-of-State	In-State	Out-of-State	Combined Room and Board	Room	Board
STATE-RELATED COMMONWEALTH UNIVERSITIES--Concluded							
Temple University	$ 3 894	$ 6 802	$ 4 298	$ 5 378	$ 3 724	$ 2 514	$ 1 210
University of Pittsburgh							
Main Campus	3 836	7 516	4 632	9 162	3 174	1 910	1 264
Bradford Campus	3 810	7 490	-	-	3 160	1 600	1 560
Greensburg Campus	3 710	7 390	-	-	-	1 510	-
Johnstown Campus	3 780	7 460	-	-	3 136	1 670	1 466
Titusville Campus	3 690	7 210	-	-	3 230	1 660	1 570
COMMUNITY COLLEGES							
Bucks County Community College	1 256	4 280	-	-	-	-	-
Butler County Community College	1 161	3 633	-	-	-	-	-
Community College of Allegheny County	1 252	3 712	-	-	-	-	-
Community College of Beaver County	1 250	4 190	-	-	-	-	-
Community College of Philadelphia	1 288	3 784	-	-	-	-	-
Delaware County Community College	1 014	3 222	-	-	-	-	-
Harrisburg Area Community College	1 095	3 285	-	-	-	-	-
Lehigh County Community College	1 305	4 245	-	-	-	-	-
Luzerne County Community College	1 350	3 810	-	-	-	-	-
Montgomery County Community College	1 254	4 054	-	-	-	-	-
Northampton County Community College	1 440	4 500	-	-	-	-	-
Reading Area Community College	1 260	3 840	-	-	-	-	-
Westmoreland County Community College	1 272	3 928	-	-	-	-	-
Williamsport Area Community College	1 691	5 289	-	-	-	-	-
PRIVATE STATE-AIDED INSTITUTIONS							
Delaware Valley College of Science and Agriculture	7 395	7 395	-	-	3 165	1 375	1 790
Drexel University	8 816	8 816	8 844	8 844	4 071	2 520	1 551 1/
Hahnemann University	6 100	6 100	6 850	6 850	-	4 800	
Medical College of Pennsylvania	-	-	5 360	5 360	-	-	-
University of the Arts	8 800	8 800	9 200	9 200	-	2 700	-
Philadelphia College of Textiles and Science	6 950	6 950	230/cr	230/cr	3 650	1 750	1 900
Thomas Jefferson University	9 200	9 200	7 600	7 600	-	-	-
University of Pennsylvania	12 750	12 750	13 500	13 500	5 052	2 422	2 630 1/
PRIVATE COLLEGES AND UNIVERSITIES							
Academy of the New Church	2 637	2 637	-	-	2 511	943	1 568
Albright College	9 785	9 785	-	-	3 010	1 645	1 365
Allegheny College	10 425	10 425	10 425	10 425	3 190	1 590	1 600
Allentown College of St. Francis de Sales	6 045	6 045	211/cr	211/cr	3 290	1 630	1 660
Alvernia College	5 158	5 158	-	-	3 050	1 220	1 830

TABLE 4

BASIC STUDENT CHARGES AT COLLEGES AND UNIVERSITIES
ACADEMIC YEAR 1988-89--Continued

	TUITION AND REQUIRED FEES				ROOM AND BOARD		
	Undergraduate		Graduate				
	In-State	Out-of-State	In-State	Out-of-State	Combined Room and Board	Room	Board
PRIVATE COLLEGES AND UNIVERSITIES--Continued							
American College	$ -	$ -	$ 145/cr	$ 145/cr	$ -	$ -	$ -
Annenberg Research Institute	-	-	1 000 2/	1 000 2/	-	-	-
Antioch University	4 490	4 490	5 390	5 390	-	-	-
Baptist Bible College and School of Theology	4 757	4 757	4 420	4 420	2 600	1 036	1 564
Beaver College	8 200	8 200	8 800	8 800	3 600	1 825	1 775
Bryn Mawr College	12 155	12 155	10 925	10 925	4 920	2 930	1 990
Bucknell University	12 460	12 460	11 600	11 600	3 275	1 750	1 525
Cabrini College	6 335	6 335	150/cr	150/cr	4 100	2 050	2 050
Carlow College	7 560	7 560	238/cr	238/cr	4 000	2 250	1 750
Carnegie-Mellon University	12 080	12 080	12 675	12 675	4 090	2 440	1 650
Cedar Crest College	8 960	8 960	-	-	3 920	1 990	1 930
Chatham College	8 470	8 470	-	-	3 820	1 910	1 910
Chestnut Hill College	6 450	6 450	175/cr	175/cr	3 350	1 340	2 010
College Misericordia	5 850	5 850	3 960	3 960	3 400	1 810	1 590
Combs College of Music	5 750	5 750	3 910	3 910	3 800	2 300	1 500
Curtis Institute of Music	100 3/	100 3/	100 3/	100 3/	-	-	-
Dickinson College	12 230	12 230	-	-	3 660	1 940	1 720
Dickinson School of Law	-	-	7 525	7 525	-	1 250	-
Duquesne University	7 350	7 350	4 644	4 644	3 526	1 964	1 562
Eastern College	7 530	7 530	5 160	5 160	2 930	1 300	1 630
Elizabethtown College	8 835	8 835	-	-	3 250	1 600	1 650
Franklin and Marshall College	12 460	12 460	-	-	3 620	1 880	1 740
Gannon University	6 048	6 048	3 870	3 870	2 800	1 490	1 310
Geneva College	6 180	6 180	4 344	4 344	3 010	1 420	1 590
Gettysburg College	12 200	12 200	-	-	3 060	1 530	1 530
Gratz College	1 600	1 600	1 800	1 800	-	-	-
Grove City College	4 047	4 047	-	-	2 100	730	1 370
Gwynedd-Mercy College	6 000	6 000	245/cr	245/cr	3 200	1 600	1 600
Haverford College	12 675	12 675	-	-	4 400	2 375	2 025
Holy Family College	5 490	5 490	-	-	-	-	-
Immaculata College	5 490	5 490	150/cr	150/cr	3 500	1 770	1 730
Juniata College	9 540	9 540	-	-	3 050	1 450	1 600
King's College	6 400	6 400	-	-	3 200	1 470	1 730
Lafayette College	12 025	12 025	-	-	4 000	2 075	1 925
Lancaster Bible College	5 320	5 320	-	-	2 570	1 020	1 550
LaRoche College	5 400	5 400	195/cr	195/cr	3 100	1 830	1 270
LaSalle University	7 400	7 400	5 268	5 268	3 940	2 150	1 790
Lebanon Valley College	8 960	8 960	-	-	3 540	1 580	1 960
Lehigh University	12 450	12 450	12 450	12 450	4 100	2 360	1 740
Lycoming College	8 515	8 515	-	-	3 210	1 640	1 570

TABLE 4

BASIC STUDENT CHARGES AT COLLEGES AND UNIVERSITIES
ACADEMIC YEAR 1988-89--Continued

	TUITION AND REQUIRED FEES				ROOM AND BOARD		
	Undergraduate		Graduate				
	In-State	Out-of-State	In-State	Out-of-State	Combined Room and Board	Room	Board
PRIVATE COLLEGES AND UNIVERSITIES--Concluded							
Marywood College	$ 6 010	$ 6 010	$ 3 455	$ 3 455	$ 2 900	$ 1 300	$ 1 600
Mercyhurst College	6 955	6 955	6 670	6 670	2 640	1 240	1 400
Messiah College	6 750	6 750	-	-	3 320	1 620	1 700
Moore College of Art	8 700	8 700	-	-	4 300	2 400	1 900
Moravian College	9 880	9 880	-	-	3 085	1 535	1 550
Moravian Theological Seminary	-	-	5 100	5 100	3 260	1 710	1 550
Muhlenberg College	11 328	11 328	-	-	3 200	1 600	1 600
Neumann College	6 070	6 070	204/cr	204/cr	-	-	-
Pennsylvania College of Straight Chiropractic	-	-	-	-	-	-	-
Philadelphia College of Bible	5 150	5 150	-	-	3 020	1 400	1 620
Philadelphia College of Pharmacy and Science	7 175	7 175	7 100	7 100	3 700	2 200	1 500
Point Park College	6 452	6 452	190/cr	190/cr	3 860	1 610	2 250
Reconstructionist Rabbinical College	-	-	4 250	4 250	-	-	-
Robert Morris College	3 960	3 960	150/cr	150/cr	2 850	1 500	1 350
Rosemont College	7 240	7 240	175/cr	175/cr	4 480	3 572	908
Saint Francis College	7 360	7 360	5 392	5 392	3 600	1 710	1 890
Saint Joseph's University	7 700	7 700	232/cr	232/cr	4 300	2 700	1 600
Saint Vincent College	6 750	6 750	-	-	2 996	1 376	1 620
Saint Vincent Seminary	-	-	4 800	4 800	3 120	1 500	1 620
Seton Hill College	7 020	7 020	-	-	3 070	1 228	1 842
Spring Garden College	6 700	6 700	-	-	3 800	2 300	1 500
Susquehanna University	9 565	9 565	-	-	3 375	1 685	1 690
Swarthmore College	13 230	13 230	13 230	13 230	4 700	2 350	2 350
Thiel College	7 730	7 730	-	-	3 530	1 690	1 840
United Wesleyan College	4 845	4 845	-	-	2 600	1 100	1 500
University of Scranton	7 174	7 174	4 000	4 000	3 414	1 884	1 530
Ursinus College	9 025	9 025	-	-	3 650	1 460	2 190
Valley Forge Christian College	2 760	2 760	-	-	2 462	992	1 470
Villa Maria College	6 030	6 030	200/cr	200/cr	3 100	1 550	1 550
Villanova University	9 040	9 040	4 736	4 736	4 420	1 990	2 430
Washington and Jefferson College	9 740	9 740	-	-	2 890	1 410	1 480
Waynesburg College	6 386	6 386	4 656	4 656	2 740	1 340	1 400
Westminster College	7 700	7 700	6 000	6 000	2 450	1 150	1 300
Widener University	8 290	8 290	5 430	5 430	3 870	2 040	1 830
Wilkes College	7 265	7 265	5 136	5 136	3 270	1 880	1 390
Wilson College	8 644	8 644	-	-	3 756	1 906	1 850
York College of Pennsylvania	3 724	3 724	145/cr	145/cr	2 412	1 172	1 240
THEOLOGICAL SEMINARIES							
Biblical Theological Seminary	-	-	2 320	2 320	-	-	-
Calvary Baptist Theological Seminary	-	-	2 490	2 490	-	-	-
Christ the Saviour Seminary	885	885	-	-	1 200	500	700
Eastern Baptist Theological Seminary	-	-	3 375	3 375	-	1 200	-

TABLE 4

BASIC STUDENT CHARGES AT COLLEGES AND UNIVERSITIES
ACADEMIC YEAR 1988-89--Concluded

	TUITION AND REQUIRED FEES				ROOM AND BOARD		
	Undergraduate		Graduate				
	In-State	Out-of-State	In-State	Out-of-State	Combined Room and Board	Room	Board
THEOLOGICAL SEMINARIES --Concluded							
Evangelical School of Theology	$ -	$ -	$ 3 015	$ 3 015	$ -	$ 500	$ -
Faith Theological Seminary	-	-	1 800	1 800	-	500	-
Lancaster Theological Seminary	-	-	3 510	3 510	3 000	1 290	1 710
Lutheran Theological Seminary - Gettysburg	-	-	2 366	2 366	2 070	720	1 350 4/
Lutheran Theological Seminary - Philadelphia	-	-	2 346	2 346	2 625	735	1 890
Mary Immaculate Seminary	-	-	3 160	3 160	3 100	1 000	2 100
Pittsburgh Theological Seminary	-	-	4 344	4 344	-	1 125	-
Reformed Presbyterian Theological Seminaries	-	-	-	-	-	750	300 5/
Saint Charles Borromeo Seminary	3 525	3 525	3 500	3 500	3 000	1 000	2 000
Theological Seminary of the Reformed Episcopal Church	-	-	-	-	-	-	-
Trinity Episcopal School of Ministry	-	-	-	-	-	-	-
Westminster Theological Seminary	-	-	3 900	3 900	2 725	1 375	1 350 4/
PRIVATE JUNIOR COLLEGES							
Harcum Junior College	5 108	5 108	-	-	3 530	1 765	1 765
Keystone Junior College	5 690	5 690	-	-	3 440	1 720	1 720
Lackawanna Junior College	3 750	3 750	-	-	-	-	-
Manor Junior College	5 270	5 270	-	-	3 000	1 708	1 292 1/
Mount Aloysius Junior College	5 590	5 590	-	-	2 800	1 280	1 520
Northeastern Christian Junior College	4 008	4 008	-	-	2 944	1 216	1 728
Peirce Junior College	4 900	4 900	-	-	-	2 120	-
Pinebrook Junior College	4 935	4 935	-	-	2 847	1 230	1 617
Valley Forge Military Junior College	8 080	8 080	-	-	3 410	2 355	1 055

- Data not applicable.

1/ Board charge is for five days per week.
2/ The student body consists of part-time students. Not included in averages.
3/ Not included in averages.
4/ Board charge is for six days per week.
5/ Board charge is for noon meals four days per week.

TABLE 5

TUITION AND REQUIRED FEES FOR FIRST-PROFESSIONAL PROGRAMS
ACADEMIC YEAR 1988-89

	In-State	Out-of-State
CHIROPRACTIC		
Pennsylvania College of Straight Chiropractic	$ 5 830	$ 5 830
DENTISTRY		
Temple University	10 862	17 502
University of Pittsburgh	13 192	18 602
University of Pennsylvania		
First Year	19 510	19 510
Upper Class	18 930	18 930
Advanced	20 400	20 400
LAW		
Dickinson School of Law	7 525	7 525
Duquesne University		
Day	6 860	6 860
Evening	5 245	5 245
Temple University	5 032	9 502
University of Pennsylvania	13 780	13 780
University of Pittsburgh	6 512	10 352
Villanova University	9 570	9 570
MEDICINE		
Hahnemann University	17 092	17 092
Medical College of Pennsylvania	14 820	14 820
The Pennsylvania State University	11 508	17 406
Temple University	13 332	18 084
Thomas Jefferson University	16 025	16 025
University of Pennsylvania	16 650	16 650
University of Pittsburgh	13 802	19 262
OPTOMETRY		
Pennsylvania College of Optometry	7 977	13 377 1/
OSTEOPATHY		
Philadelphia College of Osteopathic Medicine	13 605	13 960
PHARMACY		
Duquesne University	6 708	6 708
Philadelphia College of Pharmacy and Science	7 100	7 100
PODIATRY		
Pennsylvania College of Podiatric Medicine	12 803	13 103

TABLE 5

TUITION AND REQUIRED FEES FOR FIRST-PROFESSIONAL PROGRAMS
ACADEMIC YEAR 1988-89--Concluded

	In-State	Out-of-State
THEOLOGY		
Academy of the New Church	$ 2 562	$ 2 562
Baptist Bible College and School of Theology	4 580	4 580
Biblical Theological Seminary	2 880	2 880
Calvary Baptist Theological Seminary	2 800	2 800
Eastern Baptist Theological Seminary	4 800	4 800
Evangelical School of Theology	3 015	3 015
Faith Theological Seminary	4 500	4 500
Lancaster Theological Seminary	4 185	4 185
Lutheran Theological Seminary--Gettysburg	2 366	2 366
Lutheran Theological Seminary--Philadelphia	2 706	2 706
Mary Immaculate Seminary	3 160	3 160
Moravian College (Moravian Theological Seminary)	5 100	5 100
Pittsburgh Theological Seminary	4 344	4 344
Reconstructionist Rabbinical College	4 250	4 250
Reformed Presbyterian Theological Seminary	1 915	1 915
Saint Charles Borromeo Seminary	3 500	3 500
Saint Vincent College (Saint Vincent Seminary)	6 000	6 000
Theological Seminary of the Reformed Episcopal Church	3 045	3 045
Trinity Episcopal School for Ministry	2 732	2 732
Westminster Theological Seminary	4 430	4 430
VETERINARY MEDICINE		
University of Pennsylvania	12 562 2/	14 940

1/ Possible reduction of $4,000-$6,500 in tuition for students from contract states.

2/ Tuition and required fees for students from contract states and Pennsylvania.

TABLE 6

AVERAGE UNDERGRADUATE BASIC STUDENT CHARGES IN INSTITUTIONS OF HIGHER EDUCATION BY CONTROL OF INSTITUTION AND STATE, 1986-87

	Public 4-year				Private 4-year				2-year (tuition only)	
State or Other Area	Total	Tuition (in State)	Room	Board	Total	Tuition	Room	Board	Public	Private
United States	$4 208	$1 414	$1 323	$1 471	$ 8 331	$6 650	$1 673	$1 795	$ 660	$3 684
Alabama.	3 460	1 275	1 043	1 142	6 841	4 316	1 172	1 353	666	2 779
Alaska	4 062	975	1 429	1 658	7 342	3 719	1 589	2 034	824	-
Arizona.	3 899	1 136	1 361	1 402	4 587	2 462	923	1 202	350	-
Arkansas	2 847	931	784	1 132	5 346	3 310	792	1 244	472	2 082
California	5 298	1 031	1 986	2 281	11 883	8 073	1 689	2 121	96	4 655
Colorado	4 517	1 482	1 373	1 662	10 759	7 913	1 376	1 470	623	586
Connecticut.	4 388	1 527	1 370	1 491	12 670	8 534	1 964	2 172	573	7 367
Delaware	2 026	906	1 120	-	5 889	2 794	1 461	1 634	932	-
District of Columbia	634	634	-	-	11 564	7 128	2 370	2 066	-	-
Florida.	3 948	1 055	1 254	1 639	1 367	1 367	-	-	608	-
Georgia.	3 688	1 369	959	1 360	8 901	5 688	1 492	1 721	799	2 626
Hawaii	4 347	972	1 307	2 068	5 203	3 020	1 133	1 050	201	-
Idaho.	3 837	1 036	846	1 955	8 632	5 774	900	1 958	690	502
Illinois	4 520	1 708	1 339	1 473	10 038	6 560	1 729	1 749	866	3 614
Indiana.	4 087	1 627	1 090	1 370	9 601	6 762	1 349	1 490	1 211	3 800
Iowa	3 510	1 305	1 088	1 117	8 327	5 847	1 063	1 417	1 057	3 100
Kansas	3 585	1 271	1 143	1 171	6 411	4 121	985	1 305	537	3 461
Kentucky	3 330	1 152	889	1 294	6 452	3 868	1 077	1 507	540	3 126
Louisiana.	3 634	1 341	1 051	1 242	10 448	6 812	1 765	1 871	619	-
Maine.	4 610	1 561	1 476	1 573	12 768	9 032	1 767	1 969	800	2 067
Maryland	5 413	1 682	1 889	1 842	11 238	7 274	1 914	2 050	906	4 660
Massachusetts. . . .	4 297	1 388	1 294	1 615	13 584	8 953	2 312	2 319	750	5 602
Michigan	4 820	1 877	1 212	1 731	7 798	5 093	1 208	1 497	917	3 640
Minnesota.	4 059	1 814	1 113	1 132	9 504	6 843	1 223	1 438	1 229	1 908
Mississippi.	3 926	1 603	1 050	1 273	5 584	3 890	655	1 039	409	1 733
Missouri	3 454	1 277	1 162	1 015	8 231	5 474	1 312	1 445	524	3 700
Montana.	4 203	1 205	1 205	1 793	6 443	3 867	924	1 652	423	953
Nebraska	3 401	1 292	870	1 239	7 600	5 090	1 171	1 339	740	3 100
Nevada	3 509	908	1 302	1 299	4 900	3 100	1 800	-	573	-
New Hampshire. . . .	4 580	2 190	1 424	966	12 434	8 401	1 995	2 038	1 514	2 710
New Jersey	4 985	1 861	1 758	1 366	12 045	8 221	1 934	1 890	763	1 200
New Mexico	3 697	915	1 121	1 661	6 588	3 649	1 175	1 764	407	-
New York	4 786	1 431	1 642	1 713	11 441	7 364	2 048	2 029	1 340	4 795
North Carolina . . .	3 112	818	1 131	1 163	8 071	5 597	1 072	1 402	216	3 635
North Dakota	3 192	1 198	682	1 312	5 949	4 162	687	1 100	1 074	-
Ohio	4 907	1 982	1 408	1 517	9 023	6 176	1 316	1 531	1 101	3 300
Oklahoma	2 986	757	944	1 285	6 219	3 662	1 120	1 437	456	2 262
Oregon	4 017	1 296	1 052	1 669	10 361	7 122	1 330	1 909	404	-
Pennsylvania	5 209	2 496	1 408	1 305	10 689	7 140	1 828	1 721	1 626	4 204
Rhode Island	5 486	1 845	1 803	1 838	12 031	8 187	1 952	1 892	844	-
South Carolina . . .	4 293	1 733	1 105	1 455	7 084	4 534	1 279	1 271	645	2 714
South Dakota	3 468	1 409	798	1 261	7 873	5 202	1 113	1 538	-	3 920
Tennessee.	3 436	1 133	1 029	1 274	7 758	5 075	1 391	1 292	660	2 323
Texas.	3 929	885	1 443	1 601	8 657	5 510	1 308	1 839	300	2 104
Utah	4 007	1 159	1 638	1 210	1 498	1 498	-	-	804	-
Vermont.	6 248	2 942	1 808	1 498	9 441	6 393	1 534	1 514	1 966	4 850
Virginia	5 055	2 070	1 482	1 503	8 949	5 724	1 672	1 553	775	4 644
Washington	4 007	1 339	1 268	1 400	10 192	6 837	1 611	1 744	654	-
West Virginia. . . .	4 180	1 003	1 627	1 550	9 068	6 164	1 235	1 669	517	1 311
Wisconsin.	3 657	1 271	1 126	1 260	9 049	6 055	1 303	1 691	887	-
Wyoming.	1 866	778	1 088	-	-	-	-	-	516	-

- Data not reported or not applicable.

NOTE: Data are for the entire year and are average charges. Tuition and fees are calculated on the basis of full-time equivalent students but are not adjusted to reflect student residency. Room and board were based on full-time students.

APPENDIX A

GLOSSARY

ACADEMIC YEAR - A nine-month period covering two semesters or three trimesters and normally extending from September through June.

AVERAGE - A value which is typical or representative of a set of data. In this report, the mean has been used synonomously with average.

BASIC STUDENT CHARGES - Includes tuition, required fees, room and board charges for a full-time undergraduate, graduate or first-professional educational program.

BOARD CHARGES - Charges for a 7-day meal plan. Where a 7-day meal plan is not available, 6-day or 5-day meal plans are used in calculating the averages. The averages do not include board charges at branch campuses.

CONTRACT STATE - A state having a contract with Pennsylvania colleges for which students are charged a reduced tuition for certain programs. The contract states for the University of Pennsylvania veterinary program are Connecticut, Delaware, Maine, Maryland, New Jersey, Puerto Rico, and Vermont. For the Pennsylvania College of Optometry, the contract states are Arkansas, Delaware, Maryland, New Jersey, North Carolina, Virginia, and West Virginia.

FIRST-PROFESSIONAL - Programs leading toward a first-professional degree in the fields of chiropractic, dentistry, law, medicine, optometry, osteopathy, pharmacy, podiatry, theology, and veterinary medicine.

ROOM CHARGES - Charges based on double occupancy for a full academic year. The averages do not include room charges at branch campuses.

TUITION - The typical or most frequently charged tuition and required fees assessed to each type of full-time student indicated. Calculated averages include full-time, in-state students (from sponsoring areas for community colleges) attending day school at the main campus. An exception to the main campus rule is the inclusion of the first-professional medical program at PSU, Hershey Medical Center. As an additional note, community college charges for in-state students residing in nonsponsoring areas are approximately twice the listed amount for in-state students. Excluded from calculated averages are those charges listed on a credit hour or per course basis.

APPENDIX B

SOURCES

1. Basic Student Charges, 1988-89 (PDE-2068, community colleges only)
2. Basic Student Charges, 1988-89 (PDE-2069)
3. Digest of Education Statistics 1988, U.S. Department of Education, Center for Education Statistics
4. Monthly Summary of CPI News Release, U.S. Department of Labor, Bureau of Labor Statistics, Washington, D.C.

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Public Schools

Full-Time
Professional Personnel
1988-89

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Public Schools

Full-Time
Professional Personnel
1988-89

This is one in a series of publications containing statistical summaries related to basic education, postsecondary education, and vocational education in Pennsylvania. For more detailed data, contact the Division of Data Services at (717) 787-2644.

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April 1989

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HIGHLIGHTS

- The 121,470 professional personnel reflected an increase of 1.2 percent over the 120,064 reported in 1987-88 but a 6.5 percent decline from the 129,927 reported in 1979-80.

- Classroom teachers accounted for 85.9 percent of all professional personnel.

- The average salary of all professional personnel increased 7.0 percent since 1987-88 to $32,281; the average salary of classroom teachers rose 7.1 percent to $31,248.

- The length of service for all professional personnel averaged 16.7 years; for classroom teachers, 16.2 years.

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OVERVIEW

The total full-time professional staff of 121,470 in the public schools of Pennsylvania at the beginning of the 1988-89 school year was a 6.5 percent decrease from the 129,927 employed in 1979-80. During this same ten-year period the public school enrollment showed a 15.8 percent decrease, falling from 1,968,801 in 1979-80 to 1,658,335 in 1988-89.

Of the total number of personnel, 60.6 percent were female. This was an increase of 0.8 percent over the 59.8 percent in 1987-88. However, there was a wide disparity in the proportion of females within the various groups of employees. Although females comprised 69.8 percent of the coordinate services employees and 62.2 percent of the classroom teachers, only 20.9 percent of the administrative/supervisory positions were filled by females.

Over the past 10 years the average salary of all professional personnel rose $15,044 from $17,237 in 1979-80 to $32,281 in 1988-89. The 1988-89 figure was a 7.0 percent increase above the $30,170 average salary for the preceding year. With classroom teachers, the average salary rose 7.1 percent from $29,177 in 1987-88 to $31,248 in 1988-89. Annual salaries of $30,000 or more were earned by 51.8 percent of elementary teachers and 56.6 percent of secondary teachers.

In 1987-88, the average public school classroom teacher in the United States earned $28,085. Classroom teachers in Alaska ranked first in the nation earning an average of $40,510, 44.2 percent more than the national average, while classroom teachers in South Dakota earned the lowest average salary, $19,758. With an average salary of $29,177, Pennsylvania ranked fifteenth in the nation.

The highest degree held by the major portion of the professional personnel was the master's degree with 52.3 percent of the personnel holding such a degree. Bachelor's degrees were held by 44.8 percent of the professional personnel and 1.7 percent held the doctor's degree.

The average years of service rose slightly from 16.49 years in 1987-88 to 16.65 years in 1988-89. Males, with an average of 19.41 years of service, exceeded the 14.86 years of service for females by 4.55 years. This year, 12.7 percent of all professional personnel had fewer than six years of service, while 15.1 percent had more than 25 years of service. With an average of 17.75 years of service, secondary teachers exceeded the elementary teachers by 1.76 years.

Retirement was the reason given by 39.1 percent of the 5,149 personnel who left the education profession permanently. Coupled with the 219 employees who transferred to an out-of-state school system, private school, or college, a total of 5,368 employees did not return to Pennsylvania public school classrooms at the start of the 1988-89 school year. An additional 721 employees remained in public education but transferred to another local education agency in Pennsylvania.

TABLE 1

PROFESSIONAL PERSONNEL BY POSITION
1979-80 THROUGH 1988-89

Year	All Categories	Administrative/ Supervisory	Classroom Teachers	Coordinate Services	Others
1979-80	129 927	6 481	111 615	9 912	1 919
1980-81	128 518	6 410	109 928	9 934	2 246
1981-82	124 925	6 309	107 103	9 706	1 807
1982-83	121 328	6 497	103 855	9 913	1 063
1983-84	119 359	6 412	102 207	9 809	931
1984-85	118 782	6 353	101 484	9 708	1 237
1985-86	118 239	6 302	101 665	9 591	681
1986-87	119 751	6 318	102 993	9 709	731
1987-88	120 064	6 306	103 307	9 709	742
1988-89	121 470	6 416	104 379	9 957	718

FIGURE 1

PROFESSIONAL PERSONNEL
1979-80 THROUGH 1988-89

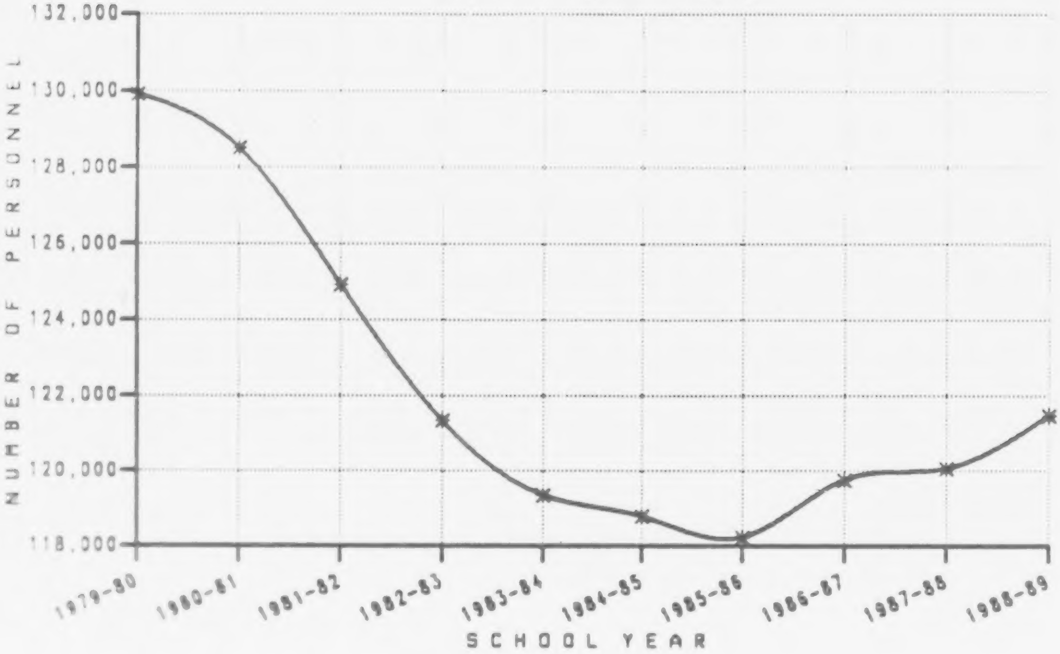

FIGURE 2

PROFESSIONAL PERSONNEL BY POSITION
1988-89

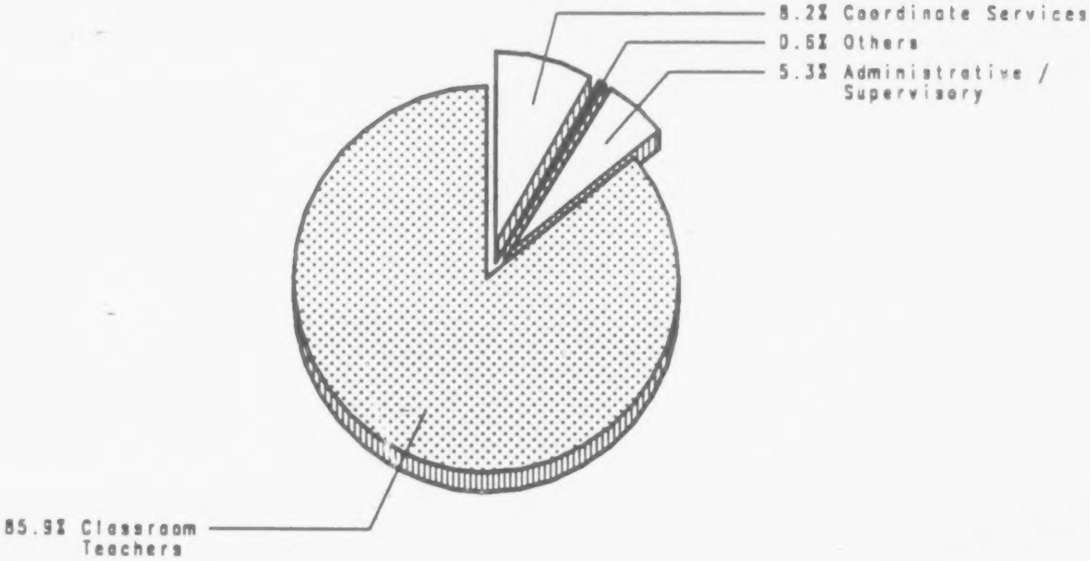

TABLE 2

PROFESSIONAL PERSONNEL AVERAGE SALARIES BY POSITION 1979-80 THROUGH 1988-89

Year	All Categories	Administrative/ Supervisory	Classroom Teachers	Coordinate Services	Others
1979-80	$17 237	$27 031	$16 517	$18 371	$19 644
1980-81	18 741	29 305	17 981	19 896	19 996
1981-82	20 298	31 425	19 482	21 464	22 756
1982-83	22 016	33 486	21 178	23 268	20 551
1983-84	23 562	35 315	22 703	24 834	22 054
1984-85	25 105	37 275	24 192	26 318	26 999
1985-86	26 781	39 538	25 853	28 076	27 428
1986-87	28 384	41 772	27 422	29 711	29 287
1987-88	30 170	44 133	29 177	31 499	31 286
1988-89	32 281	47 015	31 248	33 465	33 388

FIGURE 3

AVERAGE ANNUAL INCREASE IN PROFESSIONAL PERSONNEL SALARIES 1979-80 THROUGH 1988-89

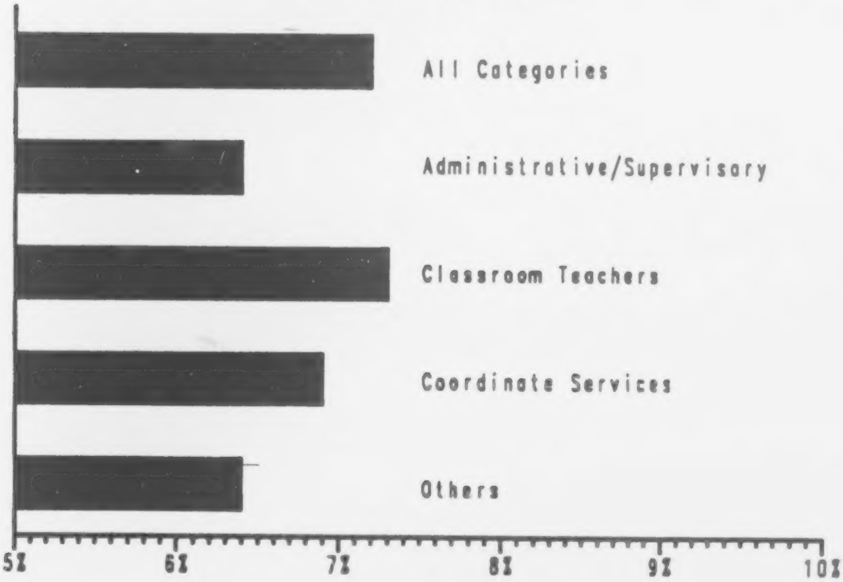

TABLE 3

PROFESSIONAL PERSONNEL BY SEX, AVERAGE SALARY, LEVEL OF EDUCATION, AND YEARS OF SERVICE BY POSITION

1988-89

POSITION	PERSONNEL			AVERAGE SALARY			AVERAGE LEVEL OF EDUCATION			AVERAGE YEARS OF SERVICE		
	TOTAL	MALE	FEMALE	MALE	FEMALE	MALE & FEMALE	MALE	FEMALE	MALE & FEMALE	MALE	FEMALE	MALE & FEMALE
ADMINISTRATIVE AND SUPERVISORY												
EXECUTIVE DIRECTOR	27	26	1	65 671	55 640	65 299	8.69	9.00	8.70	28.81	5.00	27.93
ASSISTANT EXECUTIVE DIRECTOR	36	34	2	56 848	49 579	56 444	7.97	8.00	7.97	24.71	28.50	24.92
SUPERINTENDENT, DISTRICT	495	468	27	59 719	58 448	59 652	8.32	8.59	8.33	26.21	22.41	26.00
ASSISTANT SUPERINTENDENT, DISIRICT	211	179	32	55 090	55 195	55 106	8.07	8.16	8.08	23.88	22.69	23.70
ADMINISTRATIVE ASSISTANT	185	143	42	47 281	44 156	46 556	6.57	6.60	6.58	25.61	20.71	24.50
ELEMENTARY PRINCIPAL	1 517	1 141	376	46 540	45 129	46 190	6.77	7.11	6.85	24.66	20.83	23.71
ASSISTANT ELEMENTARY PRINCIPAL	80	59	21	39 841	41 950	40 389	6.56	6.95	6.66	20.34	19.67	20.16
SECONDARY PRINCIPAL	887	848	39	48 337	50 095	48 415	6.82	7.28	6.84	24.72	21.26	24.57
ASSISTANT SECONDARY PRINCIPAL	969	806	163	44 273	43 598	44 159	6.74	6.99	6.78	22.07	18.37	21.45
PRINCIPAL, K THROUGH 12	224	201	23	46 713	48 481	46 897	6.83	7.35	6.88	24.09	21.57	23.83
ASSISTANT PRINCIPAL K THROUGH 12	150	119	31	41 839	37 780	41 016	6.62	6.81	6.66	19.82	18.71	19.59
DIRECTOR, VOCATIONAL EDUCATION	83	76	7	49 265	46 120	49 061	7.01	6.14	6.94	22.38	19.86	22.17
ASSISTANT DIRECTOR OF VOCATIONAL ED.	45	40	5	44 614	41 692	44 274	6.58	7.80	6.71	20.80	17.20	20.40
COORDINATOR	248	154	94	40 733	37 105	39 388	6.36	6.15	6.28	22.47	16.71	20.29
SUPERVISOR	1 259	784	475	46 176	42 673	44 863	6.65	6.69	6.66	22.91	19.19	21.50
SUB TOTALS	6 416	5 078	1 338	47 808	43 993	47 015	6.94	6.92	6.94	23.83	19.67	22.97
CLASSROOM TEACHERS												
KINDERGARTEN	2 529	45	2 484	28 631	29 630	29 612	5.53	5.43	5.43	13.42	15.87	15.83
ELEMENTARY	40 101	8 819	31 282	32 828	30 659	31 143	5.84	5.58	5.64	17.84	15.47	15.99
SECONDARY	41 496	24 291	17 205	32 919	30 298	31 846	5.65	5.58	5.62	19.43	15.39	17.75
SPECIALIZED, K THROUGH 12	6 882	3 134	3 748	32 615	30 165	31 290	5.67	5.59	5.63	18.12	14.52	16.16
SPECIAL EDUCATION	11 320	2 528	8 792	32 121	28 654	29 443	5.81	5.66	5.69	14.82	10.72	11.64
SPEECH CORRECTIONIST	1 358	161	1 197	32 537	28 278	28 800	5.75	5.69	5.69	18.83	12.23	13.01
DEPARTMENT HEAD	693	474	219	41 431	39 727	40 902	6.77	6.64	6.73	24.80	22.65	24.12
SUB TOTALS	104 379	39 452	64 927	32 920	30 213	31 248	5.72	5.59	5.64	18.73	14.73	16.24
COORDINATE SERVICES												
ASST. TO THE SUP. IN CHARGE OF INST.	31	22	9	52 667	52 394	52 594	7.50	8.89	7.90	22.32	20.33	21.74
ASST. TO THE SUP. IN CHARGE OF BUS.	18	17	1	56 528	64 497	56 970	6.76	8.00	6.83	27.47	39.00	28.11
AUDIOMETRIST	17	2	15	32 961	27 189	27 911	6.00	6.00	6.00	12.50	10.87	11.06
BUSINESS MANAGER	166	149	17	44 605	27 931	42 887	5.49	4.06	5.34	15.78	9.12	15.10
CURRICULUM COORDINATOR	102	68	34	48 068	41 809	45 982	7.57	7.00	7.38	25.62	18.65	23.29
DENTAL HYGIENIST	68	1	67	29 165	30 787	30 762	6.00	5.55	5.56	21.00	15.27	15.35
DIRECTOR OF DATA PROCESSING	17	16	1	43 393	21 110	42 082	5.94	5.00	5.88	20.06	5.00	19.18
DIRECTOR OF PERSONNEL	39	33	6	53 059	47 519	52 207	6.70	7.17	6.77	22.91	19.67	22.41
FEDERAL COORDINATOR	54	40	14	42 623	33 564	40 491	6.90	6.07	6.69	25.25	16.57	23.00
GUIDANCE, ELEMENTARY	658	221	437	33 799	30 138	31 381	6.35	6.21	6.26	19.88	14.43	16.26

TABLE 3

PROFESSIONAL PERSONNEL BY SEX, AVERAGE SALARY, LEVEL OF EDUCATION, AND YEARS OF SERVICE BY POSITION--Concluded

1988-89

	PERSONNEL			AVERAGE SALARY			AVERAGE LEVEL OF EDUCATION			AVERAGE YEARS OF SERVICE		
POSITION	TOTAL	MALE	FEMALE	MALE	FEMALE	MALE & FEMALE	MALE	FEMALE	MALE & FEMALE	MALE	FEMALE	MALE & FEMALE
GUIDANCE, SECONDARY	1 869	1 083	786	36 042	33 150	34 830	6.43	6.28	6.37	23.53	17.89	21.15
GUIDANCE, K THROUGH 12	780	319	461	37 540	37 959	37 786	6.75	7.04	6.92	21.82	17.32	19.16
HOME AND SCHOOL VISITOR	277	111	166	36 727	34 106	35 164	5.87	5.86	5.87	21.56	15.83	18.13
LIBRARIAN, ELEMENTARY	919	49	870	34 142	30 549	30 742	5.88	5.70	5.71	20.53	15.82	16.07
LIBRARIAN, SECONDARY	791	148	643	34 530	31 319	31 919	6.12	5.81	5.87	21.83	17.69	18.46
LIBRARIAN, K THROUGH 12	230	26	204	30 788	30 380	30 426	5.96	5.81	5.83	18.04	15.24	15.56
MANAGER, SCHOOL FOOD SERVICES	31	6	25	39 626	29 224	31 238	4.67	4.84	4.81	18.50	15.64	16.19
OCCUPATIONAL THERAPIST	30	1	29	15 974	24 057	23 768	3.00	4.69	4.63	2.00	6.69	6.53
PHYSICAL THERAPIST	71	4	67	33 593	32 443	32 508	5.50	5.75	5.73	11.75	10.72	10.77
PSYCHIATRIC SOCIAL WORKER	19	7	12	30 674	32 179	31 625	5.86	6.25	6.11	14.14	14.75	14.53
PSYCHOLOGICAL EXAMINER	11	5	6	31 375	30 169	30 717	5.80	6.17	6.00	7.80	12.83	10.55
PSYCHOLOGIST	734	387	347	39 116	35 261	37 309	7.17	6.95	7.07	16.34	12.23	14.40
SCHOOL NURSE	1 794	8	1 786	28 693	29 762	29 757	5.63	5.37	5.37	9.88	13.58	13.57
SPECIALIST	1 231	286	945	34 981	31 690	32 473	6.08	5.90	5.94	18.15	15.14	15.84
SUB TOTALS	9 957	3 009	6 948	37 415	31 735	33 465	6.45	5.91	6.08	20.94	15.28	16.99
OTHERS	718	334	384	38 421	29 012	33 388	6.07	5.51	5.77	18.81	11.86	15.09
TOTAL	121 470	47 873	73 597	34 815	30 604	32 281	5.90	5.65	5.74	19.41	14.86	16.65

NOTE: See Appendix A for explanation of average level of education.

TABLE 4

PROFESSIONAL PERSONNEL LEVEL OF EDUCATION BY POSITION
1988-89

		LEVEL OF EDUCATION								
POSITION	TOTAL	UN-KNOWN	ONE YEAR COLLEGE	TWO YEARS COLLEGE	THREE YEARS COLLEGE	BACH-ELORS DEGREE	MASTERS DEGREE	MASTERS + 1 YEAR	MASTERS + 2 YEARS	DOCTORS DEGREE
ADMINISTRATIVE AND SUPERVISORY										
EXECUTIVE DIRECTOR	27							2	4	21
ASSISTANT EXECUTIVE DIRECTOR	36					2	3	6	8	17
SUPERINTENDENT, DISTRICT	495					2	38	55	99	301
ASSISTANT SUPERINTENDENT, DISTRICT	211					2	25	33	45	106
ADMINISTRATIVE ASSISTANT	185	1	1	2	2	23	69	44	24	19
ELEMENTARY PRINCIPAL	1 517	3				23	700	399	246	146
ASSISTANT ELEMENTARY PRINCIPAL	80					4	38	24	9	5
SECONDARY PRINCIPAL	887	2				28	411	207	137	102
ASSISTANT SECONDARY PRINCIPAL	969					35	457	244	153	80
PRINCIPAL, K THROUGH 12	224					4	103	65	20	32
ASSISTANT PRINCIPAL K THROUGH 12	150					4	75	50	10	11
DIRECTOR, VOCATIONAL EDUCATION	83				1	9	24	20	18	11
ASSISTANT DIRECTOR OF VOCATIONAL ED.	45					5	23	6	2	9
COORDINATOR	248	2	2	3	1	55	98	44	20	23
SUPERVISOR	1 259	34		5	1	97	506	281	167	168
SUB TOTALS	6 416	42	3	10	5	293	2 570	1 480	962	1 051
CLASSROOM TEACHERS										
KINDERGARTEN	2 529		1		2	1 582	822	99	19	4
ELEMENTARY	40 101	117		3	25	20 183	15 295	2 771	1 539	168
SECONDARY	41 496	155	198	407	205	20 147	15 009	3 471	1 547	357
SPECIALIZED, K THROUGH 12	6 882	3			4	3 527	2 604	525	180	39
SPECIAL EDUCATION	11 320	19	3	5	30	5 258	4 612	908	439	46
SPEECH CORRECTIONIST	1 358				3	505	775	60	11	4
DEPARTMENT HEAD	693	2				88	252	152	145	54
SUB TOTALS	104 379	296	202	415	269	51 290	39 369	7 986	3 880	672
COORDINATE SERVICES										
ASST. TO THE SUP. IN CHARGE OF INST.	31					2	4	5	4	16
ASST. TO THE SUP. IN CHARGE OF BUS.	18					2	8	2	3	3
AUDIOMETRIST	17						17			
BUSINESS MANAGER	166	4	3	6	1	90	41	13	4	4
CURRICULUM COORDINATOR	102					6	31	19	10	36
DENTAL HYGIENIST	68					40	21	4	3	
DIRECTOR OF DATA PROCESSING	17					10	4		1	2
DIRECTOR OF PERSONNEL	39					7	14	6	5	7

TABLE 4

PROFESSIONAL PERSONNEL LEVEL OF EDUCATION BY POSITION--Concluded
1988-89

		LEVEL OF EDUCATION								
POSITION	TOTAL	UN-KNOWN	ONE YEAR COLLEGE	TWO YEARS COLLEGE	THREE YEARS COLLEGE	BACH-ELORS DEGREE	MASTERS DEGREE	MASTERS + 1 YEAR	MASTERS + 2 YEARS	DOCTORS DEGREE
FEDERAL COORDINATOR	54		1			5	25	9	5	9
GUIDANCE, ELEMENTARY	658				1	25	480	114	30	8
GUIDANCE, SECONDARY	1 869					43	1 281	398	111	36
GUIDANCE, K THROUGH 12	780	3				17	323	142	276	19
HOME AND SCHOOL VISITOR	277	9				91	109	39	27	2
LIBRARIAN, ELEMENTARY	919				1	378	452	63	23	2
LIBRARIAN, SECONDARY	791					264	403	92	25	7
LIBRARIAN, K THROUGH 12	230					76	128	19	4	3
MANAGER, SCHOOL FOOD SERVICES	31	1		2	2	22	4			
OCCUPATIONAL THERAPIST	30			5	5	16	4			
PHYSICAL THERAPIST	71				1	39	15	10	6	
PSYCHIATRIC SOCIAL WORKER	19					3	11	5		
PSYCHOLOGICAL EXAMINER	11					4	5	1		1
PSYCHOLOGIST	734	2				14	245	241	131	101
SCHOOL NURSE	1 794	22	1	5	17	1 145	470	85	46	3
SPECIALIST	1 231	23		1	2	305	667	153	41	39
SUB TOTALS	9 957	64	5	19	30	2 604	4 762	1 420	755	298
OTHERS	718	27	7	7	12	242	271	70	31	51
TOTAL	121 470	429	217	451	316	54 429	46 972	10 956	5 628	2 072

TABLE 5

PROFESSIONAL PERSONNEL TOTAL YEARS OF SERVICE BY POSITION
1988-89

POSITION	TOTAL	01-05	06-10	11-15	16-20	21-25	26-30	31-35	36-OVER
ADMINISTRATIVE AND SUPERVISORY									
EXECUTIVE DIRECTOR	27	1		1	4	5	5	3	8
ASSISTANT EXECUTIVE DIRECTOR	36	1	1	3	2	12	10	4	3
SUPERINTENDENT, DISTRICT	495	7	8	11	72	127	135	107	28
ASSISTANT SUPERINTENDENT, DISTRICT	211	3	2	12	54	59	46	28	7
ADMINISTRATIVE ASSISTANT	185	4	6	13	39	38	32	40	13
ELEMENTARY PRINCIPAL	1 517	12	39	154	350	343	302	227	90
ASSISTANT ELEMENTARY PRINCIPAL	80	2	5	10	28	19	11	3	2
SECONDARY PRINCIPAL	887	17	14	47	186	214	209	155	45
ASSISTANT SECONDARY PRINCIPAL	969	17	46	138	284	189	172	97	26
PRINCIPAL, K THROUGH 12	224	3	2	15	50	60	55	31	8
ASSISTANT PRINCIPAL K THROUGH 12	150	3	12	32	37	32	25	7	2
DIRECTOR, VOCATIONAL EDUCATION	83	4	1	12	19	21	12	9	5
ASSISTANT DIRECTOR OF VOCATIONAL ED.	45	1	2	8	12	10	8	4	
COORDINATOR	248	18	9	43	61	39	49	24	5
SUPERVISOR	1 259	61	58	163	302	267	206	144	58
SUB TOTALS	6 416	154	205	662	1 500	1 435	1 277	883	300
CLASSROOM TEACHERS									
KINDERGARTEN	2 529	334	324	519	662	415	190	65	20
ELEMENTARY	40 101	5 669	3 888	8 126	11 310	6 554	3 142	1 058	354
SECONDARY	41 496	4 310	4 186	6 885	10 233	8 363	5 116	1 916	487
SPECIALIZED, K THROUGH 12	6 882	875	876	1 367	1 766	1 091	626	205	76
SPECIAL EDUCATION	11 320	2 482	2 781	3 056	1 859	708	325	85	24
SPEECH CORRECTIONIST	1 358	238	267	374	299	105	53	21	1
DEPARTMENT HEAD	693	7	12	58	152	162	167	105	30
SUB TOTALS	104 379	13 915	12 334	20 385	26 281	17 398	9 619	3 455	992
COORDINATE SERVICES									
ASST. TO THE SUP. IN CHARGE OF INST.	31	1		3	9	8	9	1	
ASST. TO THE SUP. IN CHARGE OF BUS.	18	1			1	3	6	4	3
AUDIOMETRIST	17	2	4	8	2	1			
BUSINESS MANAGER	166	33	31	25	35	12	15	12	3
CURRICULUM COORDINATOR	102	3	2	11	20	23	23	15	5
DENTAL HYGIENIST	68	13	11	13	13	8	6		4
DIRECTOR OF DATA PROCESSING	17	3	1		3	6	3		1
DIRECTOR OF PERSONNEL	39	4	1	1	8	10	7	5	3
FEDERAL COORDINATOR	54	2	1	7	12	14	8	5	5
GUIDANCE, ELEMENTARY	658	81	81	142	163	97	58	31	5
GUIDANCE, SECONDARY	1 869	124	119	237	369	382	349	202	87

TABLE 5

PROFESSIONAL PERSONNEL TOTAL YEARS OF SERVICE BY POSITION--Concluded
1988-89

POSITION	TOTAL	01-05	06-10	11-15	16-20	21-25	26-30	31-35	36-OVER
GUIDANCE, K THROUGH 12	780	58	45	145	193	168	99	55	17
HOME AND SCHOOL VISITOR	277	38	31	34	51	61	36	24	2
LIBRARIAN, ELEMENTARY	919	93	146	180	255	146	70	20	9
LIBRARIAN, SECONDARY	791	53	68	148	210	170	88	39	15
LIBRARIAN, K THROUGH 12	230	36	29	45	60	38	11	9	2
MANAGER, SCHOOL FOOD SERVICES	31	4	6	9	4	2	2	2	2
OCCUPATIONAL THERAPIST	30	14	10	5	1				
PHYSICAL THERAPIST	71	18	24	14	9	1	2	3	
PSYCHIATRIC SOCIAL WORKER	19	1	5	6	3	4			
PSYCHOLOGICAL EXAMINER	11	3	3	3	1		1		
PSYCHOLOGIST	734	131	127	173	129	97	41	28	8
SCHOOL NURSE	1 794	412	272	342	393	227	103	33	12
SPECIALIST	1 231	121	163	304	324	193	82	35	9
SUB TOTALS	9 957	1 249	1 180	1 855	2 268	1 671	1 019	523	192
OTHERS	718	136	129	119	137	82	66	30	19
TOTAL	121 470	15 454	13 848	23 021	30 186	20 586	11 981	4 891	1 503

TABLE 6

PROFESSIONAL PERSONNEL SALARY DISTRIBUTION BY POSITION (PART A)

1988-89

POSITION	TOTAL	UNDER-$18 000	$18 000-$19 999	$20 000-$24 999	$25 000-$29 999	$30 000-$34 999	$35 000-$39 999	$40 000-$44 999	$45 000-$49 999
ADMINISTRATIVE AND SUPERVISORY									
EXECUTIVE DIRECTOR	27								
ASSISTANT EXECUTIVE DIRECTOR	36								5
SUPERINTENDENT, DISTRICT	495						4	20	53
ASSISTANT SUPERINTENDENT, DISTRICT	211				1	1	3	15	30
ADMINISTRATIVE ASSISTANT	185		3	2	10	13	18	28	27
ELEMENTARY PRINCIPAL	1 517				16	71	217	346	357
ASSISTANT ELEMENTARY PRINCIPAL	80				2	18	21	14	16
SECONDARY PRINCIPAL	887	1		1	2	13	84	211	217
ASSISTANT SECONDARY PRINCIPAL	969	1			12	94	187	210	207
PRINCIPAL, K THROUGH 12	224				1	2	28	75	41
ASSISTANT PRINCIPAL K THROUGH 12	150			2	5	25	35	36	27
DIRECTOR, VOCATIONAL EDUCATION	83					1	8	18	13
ASSISTANT DIRECTOR OF VOCATIONAL ED.	45					3	13	9	8
COORDINATOR	248		1	8	24	40	50	60	34
SUPERVISOR	1 259	2	1	8	38	108	170	301	281
SUB TOTALS	6 416	4	5	21	111	389	838	1 343	1 316
CLASSROOM TEACHERS									
KINDERGARTEN	2 529	36	99	524	719	598	249	172	48
ELEMENTARY	40 101	507	1 145	6 765	9 907	9 372	5 726	4 593	884
SECONDARY	41 496	522	1 299	5 852	9 314	10 854	5 868	4 868	1 517
SPECIALIZED, K THROUGH 12	6 882	124	212	1 185	1 691	1 500	764	996	229
SPECIAL EDUCATION	11 320	183	422	2 856	2 922	2 113	1 171	1 109	142
SPEECH CORRECTIONIST	1 358	22	30	298	451	326	103	60	14
DEPARTMENT HEAD	693			8	49	130	120	102	210
SUB TOTALS	104 379	1 394	3 207	17 488	25 053	24 893	14 001	11 900	3 044
COORDINATE SERVICES									
ASST. TO THE SUP. IN CHARGE OF INST.	31				1	1	3	4	6
ASST. TO THE SUP. IN CHARGE OF BUS.	18					1	1		2
AUDIOMETRIST	17			5	7	3	1		
BUSINESS MANAGER	166	1	3	4	17	13	33	27	22
CURRICULUM COORDINATOR	102				1	8	22	15	21
DENTAL HYGIENIST	68	1	3	12	13	17	9	11	
DIRECTOR OF DATA PROCESSING	17			1	1	1	5	3	2
DIRECTOR OF PERSONNEL	39				1	1	2	5	5
FEDERAL COORDINATOR	54				6	7	11	16	6
GUIDANCE, ELEMENTARY	658	1	16	121	181	146	91	56	26

TABLE 6

PROFESSIONAL PERSONNEL SALARY DISTRIBUTION BY POSITION (PART A)--Concluded
1988-89

POSITION	TOTAL	UNDER- $18 000	$18 000- $19 999	$20 000- $24 999	$25 000- $29 999	$30 000- $34 999	$35 000- $39 999	$40 000- $44 999	$45 000- $49 999
GUIDANCE, SECONDARY	1 869	3	12	168	298	500	389	237	166
GUIDANCE, K THROUGH 12	780		2	36	64	123	114	394	33
HOME AND SCHOOL VISITOR	277	1	3	26	35	68	56	74	11
LIBRARIAN, ELEMENTARY	919	12	24	168	258	213	95	69	39
LIBRARIAN, SECONDARY	791	7	18	104	203	209	110	73	38
LIBRARIAN, K THROUGH 12	230	4	8	46	64	39	30	21	8
MANAGER, SCHOOL FOOD SERVICES	31	1	1	4	10	5	6	3	
OCCUPATIONAL THERAPIST	30	6		11	9		2		
PHYSICAL THERAPIST	71	1	1	7	16	19	12	15	
PSYCHIATRIC SOCIAL WORKER	19			2	8	5	2	1	1
PSYCHOLOGICAL EXAMINER	11			3	4	1		3	
PSYCHOLOGIST	734		5	46	109	136	139	118	123
SCHOOL NURSE	1 794	23	95	396	431	392	213	176	23
SPECIALIST	1 231	15	27	191	313	239	141	176	49
SUB TOTALS	9 957	76	218	1 351	2 050	2 147	1 487	1 497	581
OTHERS	718	17	30	120	155	118	81	44	45
TOTAL	121 470	1 491	3 460	18 980	27 369	27 547	16 407	14 784	4 986

TABLE 6

PROFESSIONAL PERSONNEL SALARY DISTRIBUTION BY POSITION (PART B)
1988-89

POSITION	$50 000- $54 999	$55 000- $59 999	$60 000- $64 999	$65 000- $69 999	$70 000- $74 999	$75 000- $79 999	$80 000- OVER	UNKNOWN
ADMINISTRATIVE AND SUPERVISORY								
EXECUTIVE DIRECTOR	1	9	4	2	8	2	1	
ASSISTANT EXECUTIVE DIRECTOR	12	9	7	2	1			
SUPERINTENDENT, DISTRICT	95	105	77	53	39	25	19	5
ASSISTANT SUPERINTENDENT, DISTRICT	61	33	49	14	2	1		1
ADMINISTRATIVE ASSISTANT	39	24	15	1		1		4
ELEMENTARY PRINCIPAL	366	76	34	9	1			24
ASSISTANT ELEMENTARY PRINCIPAL	4	1	1					3
SECONDARY PRINCIPAL	137	130	40	20	4			27
ASSISTANT SECONDARY PRINCIPAL	183	42	12	6				15
PRINCIPAL, K THROUGH 12	40	26	7	1				3
ASSISTANT PRINCIPAL K THROUGH 12	15	3						2
DIRECTOR, VOCATIONAL EDUCATION	23	7	4	2	1			6
ASSISTANT DIRECTOR OF VOCATIONAL ED.	7	2	1					2
COORDINATOR	14	7	2					8
SUPERVISOR	205	81	35	12	1			16
SUB TOTALS	1 202	555	288	122	57	29	20	116
CLASSROOM TEACHERS								
KINDERGARTEN	6						1	77
ELEMENTARY	188	4		1			1	1 008
SECONDARY	366	7					3	1 026
SPECIALIZED, K THROUGH 12	3	1						177
SPECIAL EDUCATION	51	1			1			349
SPEECH CORRECTIONIST								54
DEPARTMENT HEAD	57	8	1					8
SUB TOTALS	671	21	1	1	1		5	2 699
COORDINATE SERVICES								
ASST. TC THE SUP. IN CHARGE OF INST.	4	2	2	3	3	1		1
ASST. TO THE SUP. IN CHARGE OF BUS.	3	2	4	5				
AUDIOMETRIST								1
BUSINESS MANAGER	22	10	4	6	2	1		1
CURRICULUM COORDINATOR	15	9	6	1		1		3
DENTAL HYGIENIST								2
DIRECTOR OF DATA PROCESSING	2	1	1					
DIRECTOR OF PERSONNEL	9	7	6	3				
FEDERAL COORDINATOR	1	2	2					3
GUIDANCE, ELEMENTARY	4	1	2					13

TABLE 6

PROFESSIONAL PERSONNEL SALARY DISTRIBUTION BY POSITION (PART B)--Concluded
1988-89

POSITION	$50 000- $54 999	$55 000- $59 999	$60 000- $64 999	$65 000- $69 999	$70 000- $74 999	$75 000- $79 999	$80 000- OVER	UNKNOWN
GUIDANCE, SECONDARY	29	10	1					56
GUIDANCE, K THROUGH 12	5	1						8
HOME AND SCHOOL VISITOR	1							2
LIBRARIAN, ELEMENTARY	12							29
LIBRARIAN, SECONDARY	9							20
LIBRARIAN, K THROUGH 12	1							9
MANAGER, SCHOOL FOOD SERVICES		1						
OCCUPATIONAL THERAPIST								2
PHYSICAL THERAPIST								
PSYCHIATRIC SOCIAL WORKER								
PSYCHOLOGICAL EXAMINER								
PSYCHOLOGIST	30	13						15
SCHOOL NURSE	6							39
SPECIALIST	37	4	4	1				34
SUB TOTALS	190	63	32	19	5	3		238
OTHERS	37	24	10	4	3			30
TOTAL	2 100	663	331	146	66	32	25	3 083

TABLE 7

PROFESSIONAL PERSONNEL AGE DISTRIBUTION BY POSITION
1988-89

POSITION	TOTAL	UNDER 20	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-OVER
ADMINISTRATIVE AND SUPERVISORY												
EXECUTIVE DIRECTOR	27						1	7	7	4	7	1
ASSISTANT EXECUTIVE DIRECTOR	36					1	7	7	12	7	2	
SUPERINTENDENT, DISTRICT	495					8	77	121	138	111	33	7
ASSISTANT SUPERINTENDENT, DISTRICT	211					16	51	62	39	34	6	3
ADMINISTRATIVE ASSISTANT	185			1	7	16	37	31	25	41	21	6
ELEMENTARY PRINCIPAL	1 517				20	170	345	330	253	246	134	19
ASSISTANT ELEMENTARY PRINCIPAL	80				4	12	31	17	6	6	4	
SECONDARY PRINCIPAL	887			1	5	66	186	212	183	157	66	11
ASSISTANT SECONDARY PRINCIPAL	969			1	34	145	266	209	149	86	72	7
PRINCIPAL, K THROUGH 12	224				4	25	54	50	39	40	11	1
ASSISTANT PRINCIPAL K THROUGH 12	150				11	42	33	24	24	12	4	
DIRECTOR, VOCATIONAL EDUCATION	83				1	7	14	16	14	19	9	3
ASSISTANT DIRECTOR OF VOCATIONAL ED	45				1	6	7	9	6	13	2	1
COORDINATOR	248			3	12	30	47	48	52	35	17	4
SUPERVISOR	1 259		3	2	23	135	274	251	202	204	139	26
SUB TOTALS	6 416		3	8	122	679	1 430	1 394	1 149	1 015	527	89
CLASSROOM TEACHERS												
KINDERGARTEN	2 529	1	34	155	217	595	612	346	267	182	96	24
ELEMENTARY	40 101	13	513	1 971	2 985	8 649	10 674	6 398	3 964	2 995	1 605	334
SECONDARY	41 496	11	439	1 973	3 123	6 893	10 683	7 861	4 973	3 438	1 736	366
SPECIALIZED, K THROUGH 12	6 882		90	412	710	1 523	1 752	1 067	637	398	251	42
SPECIAL EDUCATION	11 320	8	218	1 248	2 050	3 284	2 190	1 041	559	397	255	70
SPEECH CORRECTIONIST	1 358	3	21	143	252	436	255	111	72	36	28	1
DEPARTMENT HEAD	693			1	9	40	138	153	146	125	64	17
SUB TOTALS	104 379	36	1 315	5 903	9 346	21 420	26 304	16 977	10 618	7 571	4 035	854
COORDINATE SERVICES												
ASST. TO THE SUP. IN CHARGE OF INST	31				1	3	10	7	7	3		
ASST. TO THE SUP. IN CHARGE OF BUS.	18					1	1	2	4	6	3	1
AUDIOMETRIST	17			2	5	7	2	1				
BUSINESS MANAGER	166			6	16	32	36	20	20	21	13	2
CURRICULUM COORDINATOR	102					7	18	23	24	21	5	4
DENTAL HYGIENIST	68			2	10	9	17	9	4	10	5	2
DIRECTOR OF DATA PROCESSING	17			1	2	1	4	5	2	1		1
DIRECTOR OF PERSONNEL	39					4	5	14	7	6	2	1
FEDERAL COORDINATOR	54					6	9	7	10	9	8	5
GUIDANCE, ELEMENTARY	658		2	21	53	137	174	122	65	54	20	10
GUIDANCE, SECONDARY	1 869			27	89	240	403	358	311	250	157	34

TABLE 7

PROFESSIONAL PERSONNEL AGE DISTRIBUTION BY POSITION--Concluded
1988-89

POSITION	TOTAL	UNDER 20	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-OVER
GUIDANCE, K THROUGH 12	780		1	8	20	81	163	153	132	102	82	38
HOME AND SCHOOL VISITOR	277			3	11	22	54	44	42	40	39	22
LIBRARIAN, ELEMENTARY	919		3	24	79	211	256	128	71	76	63	8
LIBRARIAN, SECONDARY	791			23	41	145	200	127	86	83	62	24
LIBRARIAN, K THROUGH 12	230		3	7	17	56	66	27	16	18	15	5
MANAGER, SCHOOL FOOD SERVICES	31				4	6	4	7	3	2	4	1
OCCUPATIONAL THERAPIST	30		1	9	6	6	4			2	2	
PHYSICAL THERAPIST	71		1	6	5	15	17	9	6	6	4	2
PSYCHIATRIC SOCIAL WORKER	19				5	4	2	4	1	2	1	
PSYCHOLOGICAL EXAMINER	11			1	2	2	2	1	3			
PSYCHOLOGIST	734			25	64	154	198	127	65	49	40	12
SCHOOL NURSE	1 794	4		22	80	142	217	288	353	340	273	75
SPECIALIST	1 231		1	27	89	275	294	213	134	110	72	16
SUB TOTALS	9 957	4	12	214	599	1 566	2 156	1 696	1 366	1 211	870	263
OTHERS	718	2	7	26	82	131	152	104	100	58	45	11
TOTAL	121 470	42	1 337	6 151	10 149	23 796	30 042	20 171	13 233	9 855	5 477	1 217

TABLE 8

PROFESSIONAL PERSONNEL TRANSFERS AND WITHDRAWALS BY POSITION
1988-89

POSITION	TOTAL TRANSFERS AND WITHDRAWALS	TRANSFERS				WITHDRAWALS			
		TOTAL TRANSFERS	IN-STATE	OUT-OF-STATE	PRIVATE SCHOOLS/ COLLEGES	TOTAL WITHDRAWALS	RETIREMENT	DEATH/ ILLNESS	OTHER
ADMINISTRATIVE AND SUPERVISORY									
EXECUTIVE DIRECTOR	1					1	1		
ASSISTANT EXECUTIVE DIRECTOR	2					2	1		1
SUPERINTENDENT, DISTRICT	48	14	10	4		34	27	3	4
ASSISTANT SUPERINTENDENT, DISTRICT	16	9	8	1		7	5		2
ADMINISTRATIVE ASSISTANT	13	3	3			10	8		2
ELEMENTARY PRINCIPAL	94	22	19	2	1	72	57	5	10
ASSISTANT ELEMENTARY PRICIPAL	9	7	6	1		2			2
SECONDARY PRINCIPAL	64	21	19	2		43	35	1	7
ASSISTANT SECONDARY PRINCIPAL	47	21	20	1		26	13	4	9
PRINCIPAL, K THROUGH 12	9	2	2			7	4		3
ASSISTANT PRINCIPAL K THROUGH 12	11	7	7			4	2		2
DIRECTOR, VOCATIONAL EDUCATION	11	4	4			7	6	1	
ASSISTANT DIRECTOR OF VOCATIONAL ED.	6	2	2			4	3		1
COORDINATOR	14	4	4			10	5		5
SUPERVISOR	84	12	9	1	2	72	34	4	34
SUB TOTALS	429	128	113	12	3	301	201	18	82
CLASSROOM TEACHERS									
KINDERGARTEN	89	11	5	5	1	78	33	3	42
ELEMENTARY	1,587	175	121	35	19	1,412	527	51	834
SECONDARY	2,257	289	221	37	31	1,968	777	94	1,097
SPECIALIZED, K THROUGH 12	305	39	24	12	3	266	91	5	170
SPECIAL EDUCATION	655	169	126	31	12	486	79	18	389
SPEECH CORRECTIONIST	64	7	3	3	1	57	5	3	49
DEPARTMENT HEAD	28	5	3	1	1	23	17	2	4
SUB TOTALS	4,985	695	503	124	68	4,290	1,529	176	2,585
COORDINATE SERVICES									
ASST. TO THE SUP. IN CHARGE OF INST.	3	2	2			1	1		
ASST. TO THE SUP. IN CHARGE OF BUS.									
AUDIOMETRIST	2					2			2
BUSINESS MANAGER	13	7	7			6	2		4
CURRICULUM COORDINATOR	7	3	3			4	3	1	
DENTAL HYGIENIST	6					6	5		1
DIRECTOR OF DATA PROCESSING									
DIRECTOR OF PERSONNEL	3	2	2			1			1
FEDERAL COORDINATOR	6					6	3	1	2
GUIDANCE, ELEMENTARY	37	18	14	3	1	19	5	1	13

TABLE 8

PROFESSIONAL PERSONNEL TRANSFERS AND WITHDRAWALS BY POSITION--Concluded
1988-89

		TRANSFERS				WITHDRAWALS			
POSITION	TOTAL TRANSFERS AND WITHDRAWALS	TOTAL TRANSFERS	IN-STATE	OUT-OF-STATE	PRIVATE SCHOOLS/ COLLEGES	TOTAL WITHDRAWALS	RETIREMENT	DEATH/ ILLNESS	OTHER
GUIDANCE, SECONDARY	96	26	24	1	1	70	46	4	20
GUIDANCE, K THROUGH 12	26	2	1	1		24	13	1	10
HOME AND SCHOOL VISITOR	11					11	6	1	4
LIBRARIAN, ELEMENTARY	37	3	3			34	17	3	14
LIBRARIAN, SECONDARY	43	7	7			36	17		19
LIBRARIAN, K THROUGH 12	14	2	2			12	4		8
MANAGER, SCHOOL FOOD SERVICES	5	1	1			4	2		2
OCCUPATIONAL THERAPIST	3					3			3
PHYSICAL THERAPIST	3					3	1		2
PSYCHIATRIC SOCIAL WORKER	1					1	1		
PSYCHOLOGICAL EXAMINER	1	1	1						
PSYCHOLOGIST	53	17	16	1		36	14		22
SCHOOL NURSE	146	6	6			140	98	7	35
SPECIALIST	94	13	10	2	1	81	22	3	56
SUB TOTALS	610	110	99	8	3	500	260	22	218
OTHERS	65	7	6	1		58	21		37
TOTAL	6,089	940	721	145	74	5,149	2,011	216	2,922

TABLE 9

AVERAGE SALARIES OF PUBLIC SCHOOL CLASSROOM TEACHERS IN THE UNITED STATES 1987-88

	Average Salary
1. Alaska	$ 40 510
2. District of Columbia	34 705
3. New York	34 300
4. Michigan	34 050
5. Connecticut	33 776
6. California	33 200
7. Rhode Island	32 858
8. Maryland	30 933
9. Massachusetts	30 800
10. New Jersey	30 788
11. Minnesota	29 756
12. Illinois	29 716
13. Delaware	29 573
14. Wisconsin	29 206
15. Pennsylvania	**29 177**
16. Colorado	28 651
17. Hawaii	28 445
United States	**28 085**
18. Oregon	28 080
19. Washington	27 960
20. Wyoming	27 926
21. Ohio	27 606
22. Nevada	27 599
23. Virginia	27 436
24. Arizona	27 388
25. Indiana	27 067
26. Georgia	25 736
27. Texas	25 387
28. Florida	25 198
29. North Carolina	25 073
30. Iowa	24 867
31. Tennessee	24 748
32. Missouri	24 704

TABLE 9

AVERAGE SALARIES OF PUBLIC SCHOOL CLASSROOM TEACHERS IN THE UNITED STATES--Concluded
1987-88

	Average Salary
33. Kansas	$ 24 647
34. New Mexico	24 523
35. Vermont	24 507
36. Kentucky	24 274
37. South Carolina	24 241
38. New Hampshire	24 019
39. Montana	23 774
40. Maine	23 425
41. Alabama	23 201
42. Oklahoma	23 100
43. Nebraska	22 995
44. Utah	22 783
45. Idaho	22 242
46. West Virginia	21 736
47. North Dakota	21 660
48. Louisiana	21 209
49. Mississippi	20 750
50. Arkansas	20 340
51. South Dakota	19 758
Guam	27 713
Puerto Rico	11,700
Virgin Islands	18,682

NOTE: Includes estimated or preliminary figures for Alabama, California, Illinois, Indiana, Massachusetts, Michigan, Minnesota, Mississippi, Nebraska, New Jersey, New Mexico, New York, North Carolina, Oklahoma, Rhode Island, Texas, Utah, Virginia, and Washington.

SOURCE: *Survey & Analysis of Salary Trends, 1988*, Research Department of the American Federation of Teachers

APPENDIX A

GLOSSARY

ADMINISTRATIVE/SUPERVISORY - Personnel who direct and manage or assist with directing and managing the operation of a local education agency or particular school.

CLASSROOM TEACHERS - Personnel who provide instruction to public school students in kindergarten through grade 12 or ungraded classes.

COORDINATE SERVICES - Personnel who provide guidance, information, counseling, and assistance to students, parents, and other staff members or who perform specially designed services not provided by regular or special education instruction.

LEVEL OF EDUCATION - Codes used for the level of education in the Professional Personnel Record are not synonymous with years. Averages used for the level of education are averages of the codes. These codes are: 1, no college; 2, one year of college; 3, two years of college; 4, three years of college; 5, bachelor's degree; 6, master's degree; 7, master's degree plus 30 graduate credits; 8, master's degree plus 60 graduate credits; 9, doctor's degree.

OTHER PROFESSIONAL PERSONNEL - Employees in positions of a professional nature but not identified in Section 1101 of the *Pennsylvania Public School Code of 1949* or requiring certification.

PROFESSIONAL PERSONNEL - Those persons as defined in the *Pennsylvania Public School Code of 1949,* Section 1101 as "professional employees" as well as "other professional personnel."

APPENDIX B

SOURCES

1. Professional Personnel Record, (PDE-5018)
2. *Survey & Analysis of Salary Trends, 1988*, Research Department of the American Federation of Teachers
3. *Public and Nonpublic Schools: Enrollments, 1988-89*, Pennsylvania Department of Education, Division of Data Services

APPENDIX C

LOCAL EDUCATION AGENCIES UNABLE TO REPORT 1988-89 SALARIES

Because of reporting difficulties and because salary contracts had not been settled at the time the reports were submitted, the 1987-88 salaries or salaries with mandated increments were reported for all or a portion of the employees in the local education agencies listed below.

Delaware County IU 25
Lincoln IU 12
Luzerne IU 18

Abington Heights SD
Bald Eagle Area SD
Bedford Area SD
Belle Vernon Area SD
Bethlehem Area SD
Blue Ridge SD
Cameron County SD
Cheltenham Township SD
Derry Area SD
DuBois Area SD
Jefferson-Morgan SD
Lakeland SD
Leechburg Area SD
Marion Center Area SD
Meyersdale Area SD
Mifflin County SD
Millville Area SD
Minersville Area SD
Old Forge SD
Penn Cambria SD
St. Clair Area SD
St. Marys Area SD
Shenandoah Valley SD
South Butler County SD
Spring-Ford Area SD
Turkeyfoot Valley Area SD
Union SD
Uniontown Area SD
West Shore SD
West Greene SD

Butler County AVTS
Fayette County AVTS
Lawrence County AVTS
Somerset County AVTS
Western AVTS

Sym E3-11

Vocational Education

Secondary Program Statistics
1987-88

DDS
Data Series

Pennsylvania Department of Education 1989

Vocational Education

Secondary Program Statistics
1987-88

This is one in a series of publications containing statistical summaries related to basic education, higher education, and vocational education in Pennsylvania. For more detailed data, contact the Division of Data Services at area code 717-787-2644.

Commonwealth of Pennsylvania
Robert P. Casey, Governor

Department of Education
Thomas K. Gilhool, Secretary

Bureau of Information Systems
Bruce J. Cowling, Director

Division of Data Services
Roger G. Hummel, Chief
Compiled by: Mary K. Daniels, Descriptive Statistician

March 1989

Pennsylvania Department of Education
333 Market Street
Harrisburg, PA 17126-0333

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HIGHLIGHTS

- 151,107 students were enrolled in vocational education secondary programs in 1987-88, a decrease of 17,428 students or 10.3 percent from 1986-87.

- Since 1983-84, enrollments in occupational education programs, grades 10 through 12, declined by 32.3 percent, while total public school enrollments in those grades declined by only 6.6 percent.

- 38,973 students completed secondary occupational education programs in 1987-88.

- 15,755 handicapped students and 45,926 disadvantaged students (including 1,500 limited English proficient students) were enrolled in vocational education secondary programs.

- 40.0 percent of the 40,249 completers of 1986-87 approved vocational education secondary programs responded to the follow-up survey; of those responding, 90.4 percent were gainfully placed (employed, military service, and pursuing additional education), 6.4 percent were unemployed looking, and 3.2 were unemployed not looking.

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OVERVIEW

Enrollments in Pennsylvania's vocational education secondary programs continued to decline in 1987-88 at a faster rate than total public school enrollments. During the ten-year period from 1978-79 through 1987-88, occupational education enrollments in grades 10 through 12 decreased at double the rate of total public school enrollments in those grades. The sharpest decline, however, has occurred in the last five years, during which occupational enrollments in grades 10 through 12 decreased by 32.3 percent compared to 6.6 percent for total public enrollments in grades 10 through 12. Recent research suggests that such trends are occurring on the national level as well. 1/

In 1987-88, 151,107 students were enrolled in 3,978 vocational secondary programs. The majority of these enrollments were in programs operated by 562 high schools (90,802 students), followed by 85 area vocational-technical schools (58,149 students), 7 state juvenile correctional institutions (1,214 students), and 13 intermediate units (942 students).

Special needs students accounted for 41.2 percent of enrollments in secondary programs. These students may be enrolled in a separate vocational program or in a mainstream program with regular students. In 1987-88, 81.8 percent of the handicapped and 91.4 percent of the disadvantaged students were in a mainstream program.

A follow-up survey of those who completed approved vocational secondary programs in 1986-87 was conducted during the summer of 1988. Data from this survey and previous surveys show that over the last five years, the percentage of students gainfully placed has risen each year, from 85.0 percent in the 1984 survey to this year's high of 90.4 percent.

1/ First Interim Report from the National Assessment of Vocational Education, United States Department of Education, January, 1988.

In 1987-88, approved vocational secondary programs were taught by 5,554 teachers. Forty-two percent of these teachers held advanced degrees, while bachelor's degrees were held by 39.5 percent. The average annual salary for full-time teachers of approved vocational secondary programs was $28,764, up 8.8 percent from 1986-87.

TABLE I

VOCATIONAL EDUCATION SECONDARY PROGRAM ENROLLMENTS
1978-79 THROUGH 1987-88

	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88
TOTAL	261 362	258 913	251 849	242 927	235 242	226 910	197 996	181 486	168 535	151
Agriculture Education	15 637	14 723	13 825	13 455	12 228	11 719	11 122	10 267	9 443	8 445
Business Education	66 811	63 261	61 118	59 495	61 164	56 198	53 322	45 108	39 966	35 640
Health Occupations Education	5 311	5 513	5 152	4 912	4 966	5 168	5 081	4 552	4 215	3 593
Marketing and Distributive Education	10 852	11 504	9 694	9 228	8 956	7 686	7 071	6 265	5 809	5 202
Occupational Home Economics Education	2 538	2 593	2 457	2 552	12 532	9 845	9 507	8 419	7 592	6 613
Technical Education	10 290	9 597	8 106	9 160	8 817	8 539	7 266	7 477		
Trade and Industrial Education	76 590	77 462	75 715	73 569	59 959	55 972	51 803	42 371	50 822	48 330
Not Elsewhere Classified	7 833	6 907	6 988	5 092	12 207	11 088	10 983	5 686	5 476	5 245
Consumer and Homemaking Education	68 545	63 571	63 626	60 513	[illegible]	52 698	46 946	46 338	45 507	37 659
Industrial Arts Education										600

NOTE: 1. As a result of a new program coding system implemented in 1982-83, several programs that were in trade and industrial education prior to 1982-83 are now in occupational home economics education or not elsewhere classified.

2. As of 1986-87, the technical education program field is included in the trade and industrial education program field.

3. In 1987-88, the Pennsylvania Department of Education began approving programs in industrial arts education.

FIGURE 1
VOCATIONAL EDUCATION SECONDARY PROGRAM ENROLLMENTS
1978-79 THROUGH 1987-88

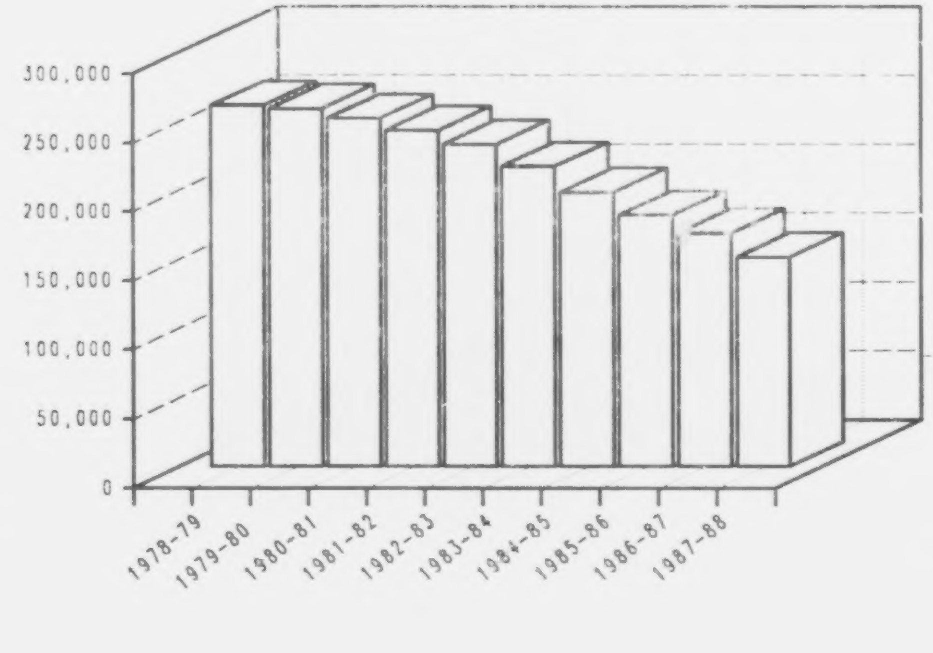


FIGURE 2
OCCUPATIONAL EDUCATION ENROLLMENTS COMPARED
WITH TOTAL PUBLIC SCHOOL ENROLLMENTS
GRADES 10 THROUGH 12
1978-79 THROUGH 1987-88

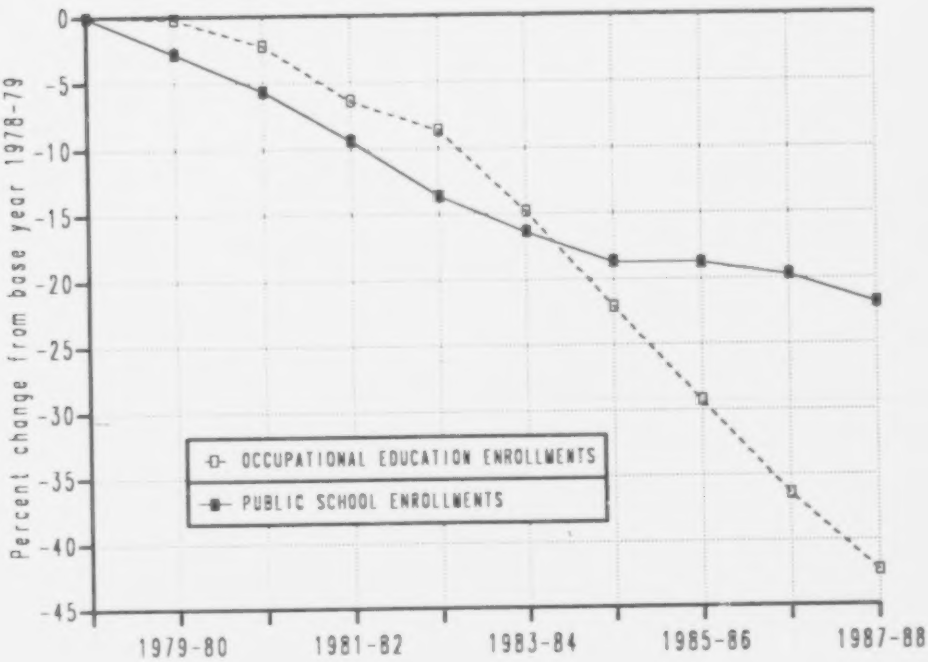
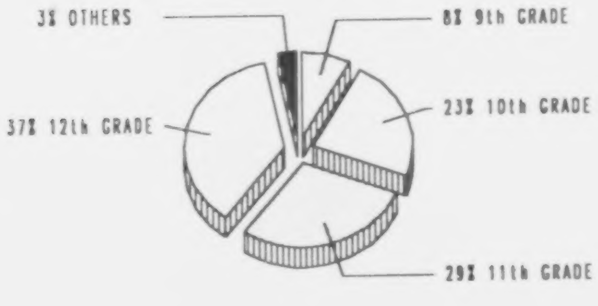


FIGURE 3
VOCATIONAL EDUCATION SECONDARY PROGRAM ENROLLMENTS BY GRADE
1987-88



NOTE: The category "OTHERS" includes ungraded students, incarcerated juveniles, and adults in secondary programs.

TABLE 2

VOCATIONAL EDUCATION SECONDARY PROGRAM ENROLLMENTS AND COMPLETERS
1987-88

	Enrollments								
	Total	Grade 9	Grade 10	Grade 11	Grade 12	Ungraded	Adults in Secondary Programs	Incarcerated Juveniles	Completers
TOTAL	151 107	11 957	34 652	43 933	56 270	1 910	1 171	1 214	38 973
Agriculture Education	8 445	1 961	2 144	2 167	2 094	49	30	0	1 918
Business Education	35 640	192	6 860	12 459	15 893	134	102	0	14 145
Health Occupations Education	3 593	14	780	1 200	1 464	54	81	0	1 355
Marketing & Distributive Education	5 202	84	809	1 889	2 323	79	18	0	2 066
Occupational Home Economics Education	6 613	107	1 702	2 127	2 247	235	81	114	1 930
Trade & Industrial Education	48 330	860	13 198	15 708	16 139	520	859	1 046	15 041
Not Elsewhere Classified	5 245	650	770	515	2 646	610	0	54	2 518
Consumer and Homemaking Education	37 439	7 489	8 389	7 868	13 464	229	-	-	-
Industrial Arts Education	600	600	-	-	-	-	-	-	-

NOTE: A dash (-) indicates "not applicable."

TABLE 3

COOPERATIVE EDUCATION AS A PERCENTAGE OF OCCUPATIONAL EDUCATION ENROLLMENTS
TWELFTH GRADE STUDENTS
1987-88

	12th Grade Occupational Enrollments	Cooperative Education			
		Capstone		Diversified Occupations	
		Enroll-ments	%	Enroll-ments	%
TOTAL	42 806	7 009	16.4	2 391	5.6
Agriculture Education	2 094	250	11.9	-	-
Business Education	15 893	1 160	7.3	-	-
Health Occupations Education	1 464	219	15.0	-	-
Marketing and Distributive Education	2 323	1 363	58.7	-	-
Occupational Home Economics Education	2 247	542	24.1	-	-
Trade and Industrial Education	16 139	3 454	21.4	-	-
Not Elsewhere Classified	2 646	21	0.8	2 391	90.4

NOTE: A dash (-) indicates "not applicable."

FIGURE 4
COOPERATIVE EDUCATION AS A PERCENTAGE
OF OCCUPATIONAL EDUCATION ENROLLMENTS
TWELFTH GRADE STUDENTS
1987-88

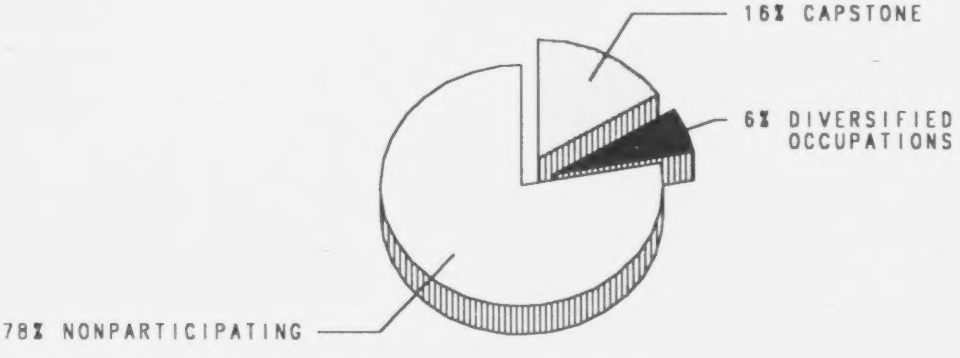


TABLE 4

VOCATIONAL EDUCATION SECONDARY PROGRAM ENROLLMENTS BY RACE
1987-88

	Total		American Indian/ Alaskan Native		Asian/ Pacific Islander		Black (Non-Hispanic)		Hispanic		White (Non-Hispanic)	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
TOTAL	69 154	81 953	79	57	276	307	10 543	11 959	1 530	1 662	56 726	67 968
Agriculture Education	6 433	2 012	3	1	3	6	211	182	22	13	6 194	1 810
Business Education	7 333	28 307	6	12	28	89	1 640	4 031	145	556	5 514	23 619
Health Occupations Education	169	3 424	0	6	2	15	63	546	3	80	101	2 777
Marketing & Distributive Education	1 873	3 329	0	2	10	7	459	593	52	62	1 352	2 665
Occupational Home Economics Education	2 144	4 469	5	4	8	17	811	1 022	70	130	1 250	3 296
Trade & Industrial Education	38 069	10 261	52	18	169	30	5 354	1 448	978	283	31 516	8 482
Not Elsewhere Classified	3 051	2 194	6	0	16	8	327	212	145	149	2 557	1 825
Consumer and Homemaking Education	9 605	27 834	6	14	36	135	1 656	3 912	115	389	7 792	23 384
Industrial Arts Education	477	123	1	0	4	0	22	13	0	0	450	110

FIGURE 5
PUBLIC SCHOOL ENROLLMENTS BY RACE
VOCATIONAL VS NON-VOCATIONAL
GRADES 10 THROUGH 12
1987-88

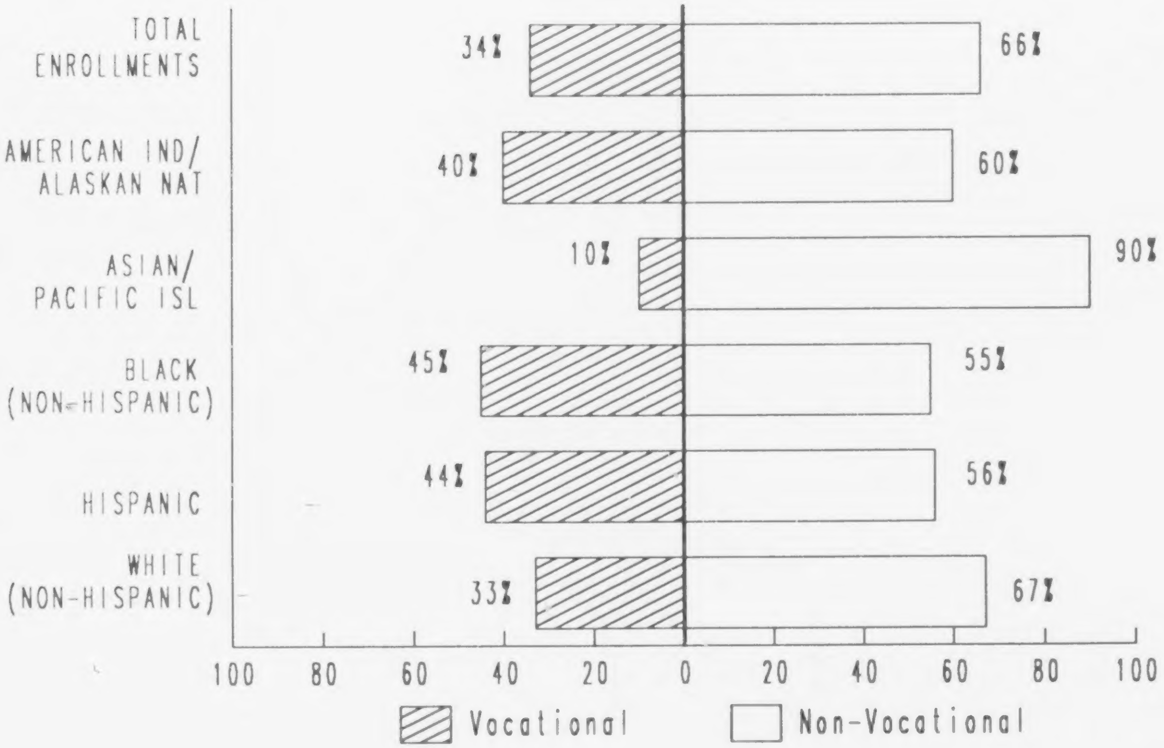


FIGURE 6
AVTSs BY NUMBER OF VOCATIONAL SECONDARY ENROLLMENTS
1987-88

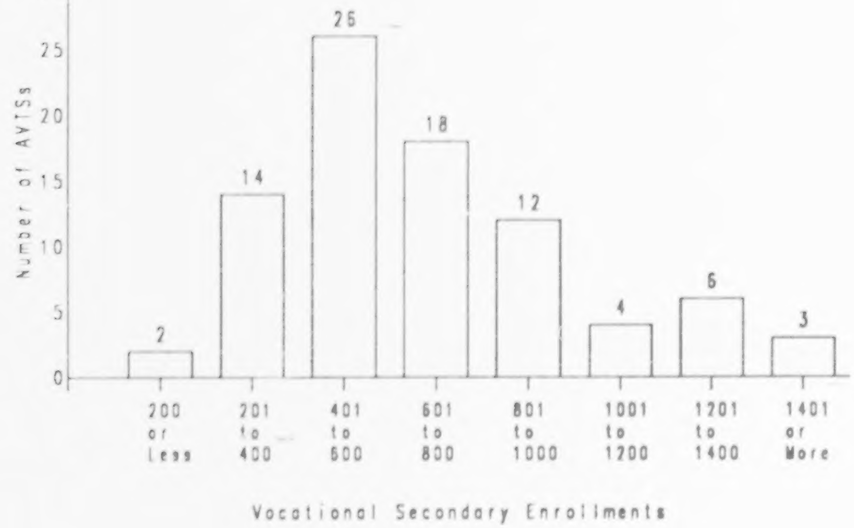


FIGURE 7
HIGH SCHOOLS BY NUMBER OF VOCATIONAL SECONDARY ENROLLMENTS
1987-88

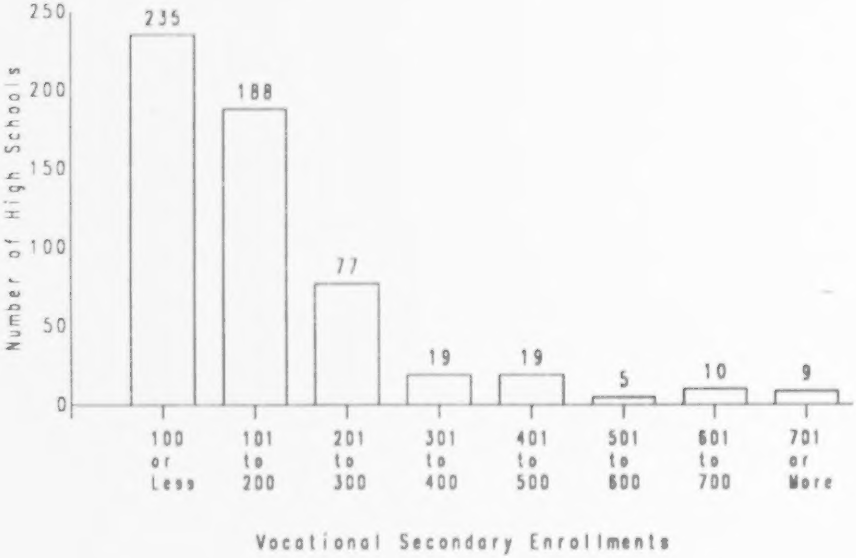


TABLE 5

VOCATIONAL EDUCATION SECONDARY PROGRAMS AND ENROLLMENTS BY TYPE OF INSTITUTION 1987-88

	Total		High School		AVTS		Intermediate Unit		Correctional Institution	
	Programs	Enroll-ments	Programs	Enroll-ments	Programs	Enroll-ments	Programs	Enroll-ments	Programs	Enroll-ments
TOTAL	3 978	151 107	2 354	90 802	1 567	58 149	25	942	32	1 214
Agriculture Education	234	8 445	169	6 259	64	2 141	1	45	0	0
Agribusiness & ag prod, other	1	69	0	0	1	69	0	0	0	0
Agricultural mechanics	24	851	20	749	4	102	0	0	0	0
Agricultural production	148	5 644	134	4 954	14	690	0	0	0	0
Agricultural products	1	96	0	0	1	96	0	0	0	0
Agricultural resources	6	73	3	51	3	22	0	0	0	0
Agricultural services & supplies	1	29	0	0	1	29	0	0	0	0
Agricultural technology	1	33	0	0	1	33	0	0	0	0
Forestry prod/processing	6	196	4	130	2	66	0	0	0	0
Horticulture	44	1 376	8	375	36	1 001	0	0	0	0
Lumbering	1	33	0	0	1	33	0	0	0	0
Multi-skill, agriculture	1	45	0	0	0	0	1	45	0	0
Business Education	1 434	35 640	1 367	32 237	66	3 390	1	13	0	0
Accounting, general	436	11 247	423	10 352	13	895	0	0	0	0
Business data processing	44	1 404	21	338	23	1 066	0	0	0	0
Business education, other	1	35	1	35	0	0	0	0	0	0
Multi-skill, business	6	167	3	120	2	34	1	13	0	0
Secretarial, general	488	8 844	474	8 165	14	679	0	0	0	0
Typing, general office	459	13 943	445	13 227	14	716	0	0	0	0
Health Occupations Education	120	3 593	20	411	100	3 182	0	0	0	0
Clinical lab assisting	5	115	1	20	4	95	0	0	0	0
Dental assisting	14	313	1	20	13	293	0	0	0	0
Dental lab technology	2	51	1	25	1	26	0	0	0	0
Health assisting	66	2 121	4	62	62	2 059	0	0	0	0
Health related technology	5	190	2	65	3	125	0	0	0	0
Home health aide	4	90	1	3	3	87	0	0	0	0
Medical assisting	8	253	1	18	7	235	0	0	0	0
Microbiology technology	1	18	0	0	1	18	0	0	0	0
Nursing assisting	15	442	9	198	6	244	0	0	0	0

TABLE 5

VOCATIONAL EDUCATION SECONDARY PROGRAMS AND ENROLLMENTS BY TYPE OF INSTITUTION--Continued
1987-88

	Total		High School		AVTS		Intermediate Unit		Correctional Institution	
	Programs	Enroll-ments	Programs	Enroll-ments	Programs	Enroll-ments	Programs	Enroll-ments	Programs	Enroll-ments
Marketing & Distributive Education	130	5 202	65	2 839	63	2 337	2	26	0	0
Marketing & distribution	110	4 669	64	2 766	45	1 891	1	12	0	0
Marketing hotel/motel services	1	5	0	0	1	5	0	0	0	0
Multi-skill marketing & dist ed	1	14	0	0	0	0	1	14	0	0
Transportation & travel marketing	1	45	0	0	1	45	0	0	0	0
Warehouse services marketing	17	469	1	73	16	396	0	0	0	0
Occupational Home Economics Education	191	6 613	54	1 900	130	4 543	3	56	4	114
Baking	11	333	0	0	11	333	0	0	0	0
Child care services	21	698	12	418	9	280	0	0	0	0
Cloth/textiles mgt/prod	21	440	4	54	17	386	0	0	0	0
Custodial services	6	142	2	33	3	79	0	0	1	30
Dietetic aide/assisting	1	9	0	0	1	9	0	0	0	0
Dressmaking	1	15	0	0	1	15	0	0	0	0
Food prod, management, & services	109	4 486	25	1 122	80	3 270	2	41	2	53
Institution/home management services	5	82	2	49	3	33	0	0	0	0
Interior design	1	28	0	0	1	28	0	0	0	0
Multi-skill home economics	2	16	1	1	0	0	1	15	0	0
Occupation home economics, other	3	86	1	16	1	39	0	0	1	31
Power sewing	4	116	2	67	2	49	0	0	0	0
Tailoring	6	162	5	140	1	22	0	0	0	0
Trade & Industrial Education	1 324	48 330	181	6 346	1 109	40 811	7	127	27	1 046
Aircraft mechanics	3	72	0	0	3	72	0	0	0	0
Appliance repair	12	304	1	13	11	291	0	0	0	0
Arch design technology	5	152	0	0	5	152	0	0	0	0
Audio-visual communications	8	228	2	74	6	154	0	0	0	0
Auto diesel mechanic	6	243	0	0	6	243	0	0	0	0
Automotive body repair	90	3 394	12	433	76	2 920	1	12	1	29
Automotive mechanics	111	5 410	26	1 217	81	3 998	1	17	3	178
Automotive occupations	3	79	1	29	1	38	1	12	0	0
Automotive specialist	10	440	2	99	8	341	0	0	0	0
Building & property maintenance	2	61	0	0	0	0	0	0	2	61

TABLE 5

VOCATIONAL EDUCATION SECONDARY PROGRAMS AND ENROLLMENTS BY TYPE OF INSTITUTION--Continued
1987-88

	Total		High School		AVTS		Intermediate Unit		Correctional Institution	
	Programs	Enroll-ments	Programs	Enroll-ments	Programs	Enroll-ments	Programs	Enroll-ments	Programs	Enroll-ments
Trade & Industrial Education--Continued										
Building construct occupations	23	1 003	9	375	12	607	1	17	1	4
Building trades maintenance	41	1 415	6	204	35	1 211	0	0	0	0
Carpentry	88	3 948	10	238	73	3 530	0	0	5	180
Chemical technology	2	20	0	0	2	20	0	0	0	0
Civil technology	2	36	0	0	2	36	0	0	0	0
Commercial art	37	1 565	4	191	33	1 374	0	0	0	0
Commercial photography	1	31	0	0	1	31	0	0	0	0
Communication electronics	19	712	7	357	12	355	0	0	0	0
Computer & information sciences	48	2 245	0	0	48	2 245	0	0	0	0
Computer servicing technology	7	146	0	0	7	146	0	0	0	0
Cosmetology	89	5 745	7	360	81	5 359	0	0	1	26
Diesel engine mechanics	22	734	0	0	22	734	0	0	0	0
Drafting	32	951	8	381	24	570	0	0	0	0
Drafting & design technology	6	147	2	64	4	83	0	0	0	0
Dryclean/laundering services	3	94	3	94	0	0	0	0	0	0
Electrical occupations	35	1 082	4	129	31	953	0	0	0	0
Electrical technology	11	434	0	0	11	434	0	0	0	0
Electrical, const/maintenance	34	939	6	129	26	801	0	0	2	9
Electrical, industrial	11	326	2	68	9	258	0	0	0	0
Electromechanical technology	8	243	0	0	8	243	0	0	0	0
Electronic technology	63	1 834	7	141	56	1 693	0	0	0	0
Electronics	9	288	3	85	5	103	0	0	1	100
Engineering related technology	1	11	0	0	1	11	0	0	0	0
Environment control technology	3	104	1	52	2	52	0	0	0	0
Foundry work	1	8	0	0	1	8	0	0	0	0
Graphic arts	53	1 560	8	168	44	1 368	0	0	1	24
Graphics occupations	5	122	1	38	4	84	0	0	0	0
Heating	8	137	0	0	8	137	0	0	0	0
Heating, air cond, refrigeration	25	630	1	14	24	616	0	0	0	0
Heavy equipment maintenance/repair	6	229	0	0	6	229	0	0	0	0
Hydraulics/fluid power	1	7	0	0	1	7	0	0	0	0
Instrument maintenance/repair	1	21	0	0	1	21	0	0	0	0
Law enforcement	2	58	1	24	1	34	0	0	0	0
Lineworker	1	42	0	0	1	42	0	0	0	0
Machine shop	78	2 184	8	253	70	1 931	0	0	0	0

TABLE 5

VOCATIONAL EDUCATION SECONDARY PROGRAMS AND ENROLLMENTS BY TYPE OF INSTITUTION--Continued
1987-88

	Total		High School		AVTS		Intermediate Unit		Correctional Institution	
	Programs	Enroll-ments	Programs	Enroll-ments	Programs	Enroll-ments	Programs	Enroll-ments	Programs	Enroll-ments
Trade & Industrial Education--Concluded										
Masonry	47	1 397	4	74	43	1 323	0	0	0	0
Masonry occupations	2	60	0	0	2	60	0	0	0	0
Meatcutting	3	56	0	0	3	56	0	0	0	0
Mechanical drafting	1	10	0	0	1	10	0	0	0	0
Mechanical drafting/design technology	30	991	5	85	25	906	0	0	0	0
Metal fabrication	6	197	0	0	6	197	0	0	0	0
Metallurgical technology	1	17	0	0	1	17	0	0	0	0
Metalworking occupations	3	88	1	33	2	55	0	0	0	0
Millwork & cabinet making	30	899	9	346	21	553	0	0	0	0
Mine equipment maintenance	1	25	0	0	1	25	0	0	0	0
Multi-skill trade & industry	6	444	2	118	1	257	3	69	0	0
Optical technology	1	18	0	0	1	18	0	0	0	0
Painting and decorating	10	221	0	0	10	221	0	0	0	0
Patternmaking	1	20	0	0	1	20	0	0	0	0
Petroleum technology	2	56	1	29	1	27	0	0	0	0
Plumbing	37	915	1	9	34	901	0	0	2	5
Power mechanics occupations	3	107	2	73	1	34	0	0	0	0
Printing press operations	1	53	0	0	1	53	0	0	0	0
Security services	1	36	0	0	1	36	0	0	0	0
Sheet metal	11	205	0	0	11	205	0	0	0	0
Shoe and boot repair	2	79	2	79	0	0	0	0	0	0
Silk screen printing	1	30	1	30	0	0	0	0	0	0
Small engine repair	19	498	3	61	12	311	0	0	4	126
Tool & die design technology	1	44	0	0	1	44	0	0	0	0
Tool and die making	3	95	0	0	3	95	0	0	0	0
Typesetting & composition	1	7	1	7	0	0	0	0	0	0
Upholstering	5	154	2	57	3	97	0	0	0	0
Welding	68	2 034	5	115	60	1 755	0	0	3	164
Woodworking, general	1	140	0	0	0	0	0	0	1	140
Not Elsewhere Classified	132	5 245	85	2 771	35	1 745	11	675	1	54
Diversified occupations	92	2 848	72	2 015	17	678	3	155	0	0
Pre-vocational/vocational assessment	6	374	3	224	3	150	0	0	0	0
Vocational education, other	34	2 023	10	532	15	917	8	520	1	54

TABLE 5

VOCATIONAL EDUCATION SECONDARY PROGRAMS AND ENROLLMENTS BY TYPE OF INSTITUTION--Concluded
1987-88

	Total		High School		AVTS		Intermediate Unit		Correctional Institution	
	Programs	Enrollments	Programs	Enrollments	Programs	Enrollments	Programs	Enrollments	Programs	Enrollments
Consumer and Homemaking Education	409	37 439	409	37 439	0	0	0	0	0	0
Child development	1	41	1	41	0	0	0	0	0	0
Clothing and textiles	3	127	3	127	0	0	0	0	0	0
Comprehensive home economics	404	37 256	404	37 256	0	0	0	0	0	0
Food and nutrition	1	15	1	15	0	0	0	0	0	0
Industrial Arts Education	4	600	4	600	0	0	0	0	0	0
Industrial Arts	4	600	4	600	0	0	0	0	0	0

NOTE: This table includes data for 110 programs not approved under the state regulations and standards for vocational education.

FIGURE 8
APPROVED VOCATIONAL EDUCATION SECONDARY PROGRAMS
NEW VS TERMINATED/DELETED
1987-88

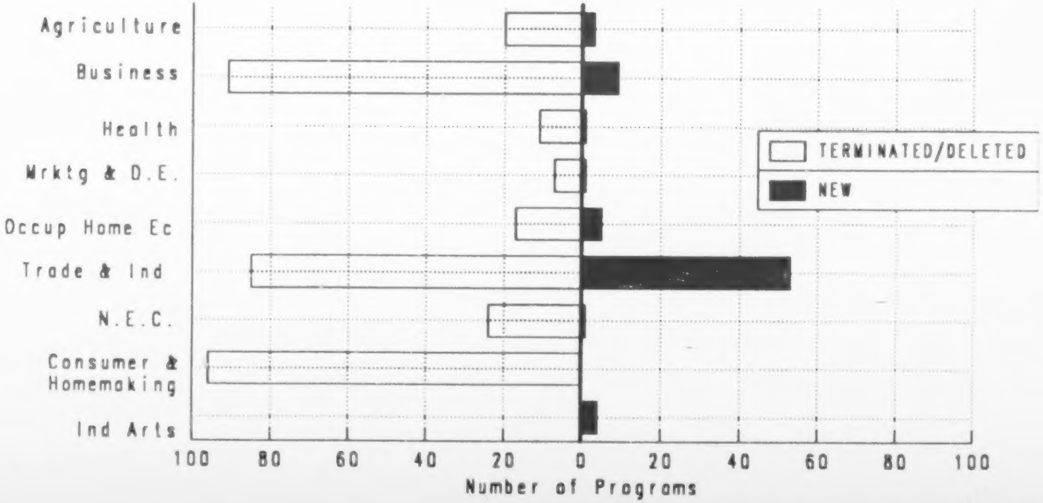
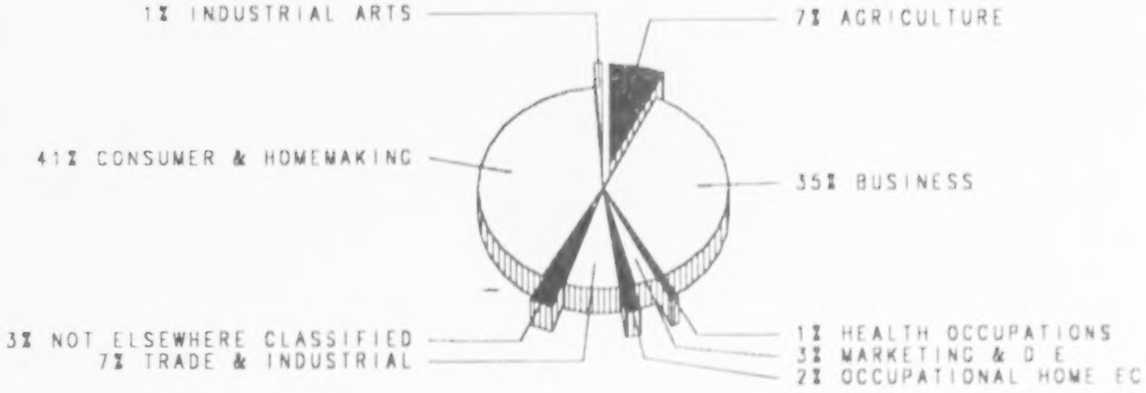
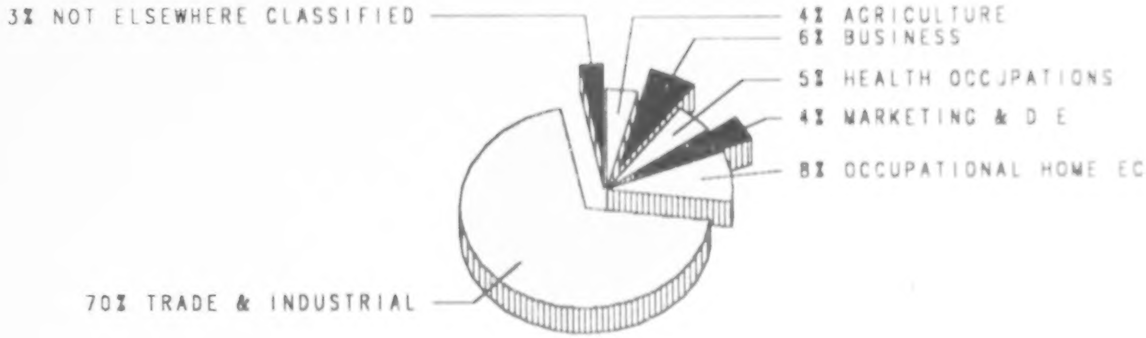


FIGURE
VOCATIONAL EDUCATION SECONDARY PROGRAM



HIGH SCHOOL



AVTS

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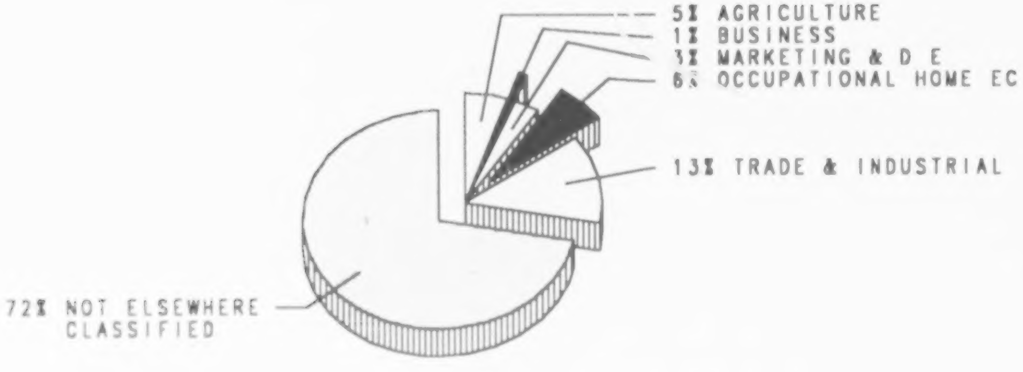
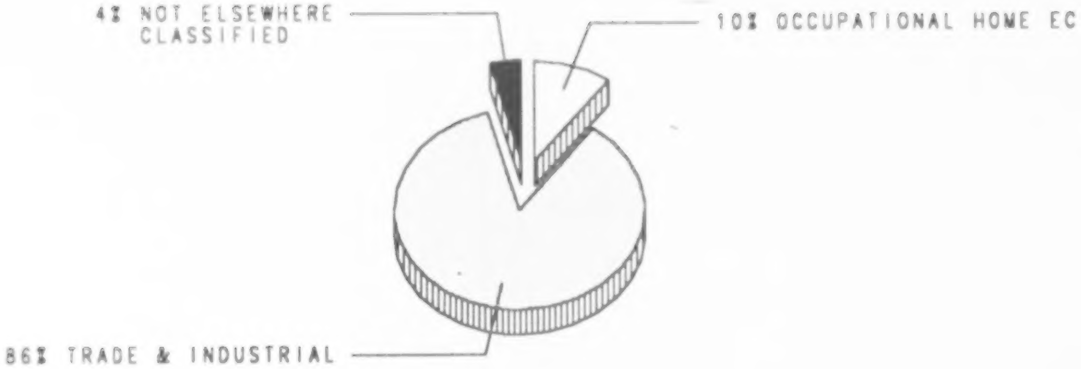
ENROLLMENTS BY TYPE OF INSTITUTION, 1987-88



INTERMEDIATE UNIT



CORRECTIONAL INSTITUTION

TABLE 6

VOCATIONAL EDUCATION SECONDARY SPECIAL NEEDS ENROLLMENTS
1987-88

	Total Vocational Enrollments	Handicapped		Disadvantaged	
		Enrollments	%	Enrollments	%
TOTAL	149 893	15 755	10.5	45 926	30.6
Agriculture Education	8 445	1 041	12.3	2 682	31.8
Agribusiness & ag prod, other	69	3	4.3	63	91.3
Agricultural mechanics	851	67	7.9	223	26.2
Agricultural production	5 644	577	10.2	1 708	30.3
Agricultural products	96	3	3.1	92	95.8
Agricultural resources	73	0	0.0	25	34.2
Agricultural services & supplies	29	1	3.4	28	96.6
Agricultural technology	33	8	24.2	10	30.3
Forestry prod/processing	196	24	12.2	35	17.9
Horticulture	1 376	302	21.9	489	35.5
Lumbering	33	11	33.3	9	27.3
Multi-skill, agriculture	45	45	1 00.0	0	0.0
Business Education	35 640	771	2.2	9 991	28.0
Accounting, general	11 247	122	1.1	2 927	26.0
Business data processing	1 404	63	4.5	361	25.7
Business education, other	35	0	0.0	12	34.3
Multi-skill, business	167	18	10.8	149	89.2
Secretarial, general	8 844	90	1.0	1 928	21.8
Typing, general office	13 943	478	3.4	4 614	33.1
Health Occupations Education	3 593	431	12.0	1 354	37.7
Clinical lab assisting	115	5	4.3	49	42.6
Dental assisting	313	16	5.1	93	29.7
Dental lab technology	51	5	9.8	13	25.5
Health assisting	2 121	248	11.7	709	33.4
Health related technology	190	1	0.5	141	74.2
Home health aide	90	17	18.9	35	38.9
Medical assisting	253	28	11.1	77	30.4
Microbiology technology	18	1	5.6	6	33.3
Nursing assisting	442	110	24.9	231	52.3

TABLE 6

VOCATIONAL EDUCATION SECONDARY SPECIAL NEEDS ENROLLMENTS--Continued
1987-88

	Total Vocational Enrollments	Handicapped		Disadvantaged	
		Enrollments	%	Enrollments	%
Marketing & Distributive Education	5 202	487	9.4	1 865	35.9
Marketing & distribution	4 669	256	5.5	1 771	37.9
Marketing hotel/motel services	5	5	1 00.0	0	0.0
Multi-skill marketing & dist ed	14	14	1 00.0	0	0.0
Transportation & travel marketing	45	1	2.2	2	4.4
Warehouse services marketing	469	211	45.0	92	19.6
Occupational Home Economics Education	6 499	1 783	27.4	2 594	39.9
Baking	333	94	28.2	132	39.6
Child care services	698	91	13.0	286	41.0
Cloth/textiles mgt/production	440	109	24.8	145	33.0
Custodial services	112	100	89.3	8	7.1
Dietetic aide/assisting	9	0	0.0	4	44.4
Dressmaking	15	1	6.7	14	93.3
Food prod, mgmnt, & services	4 433	1 148	25.9	1 853	41.8
Institution/home mgmnt services	82	66	80.5	2	2.4
Interior design	28	2	7.1	10	35.7
Multi-skill home economics	16	16	1 00.0	0	0.0
Occupational home economics, other	55	15	27.3	16	29.1
Power sewing	116	70	60.3	36	31.0
Tailoring	162	71	43.8	88	54.3
Trade & Industrial Education	47 284	7 305	15.4	16 744	35.4
Aircraft mechanics	72	5	6.9	22	30.6
Appliance repair	304	79	26.0	76	25.0
Arch design technology	152	8	5.3	80	52.6
Audio-visual communications	228	54	23.7	67	29.4
Auto diesel mechanics	243	44	18.1	76	31.3
Automotive body repair	3 365	787	23.4	1 258	37.4
Automotive mechanics	5 232	953	18.2	1 954	37.3
Automotive occupations	79	55	69.6	10	12.7
Automotive specialist	440	55	12.5	165	37.5
Building construction occupations	999	272	27.2	339	33.9
Building trades maintenance	1 415	467	33.0	509	36.0
Carpentry	3 768	594	15.8	1 129	30.0

TABLE 6

VOCATIONAL EDUCATION SECONDARY SPECIAL NEEDS ENROLLMENTS--Continued

1987-88

	Total Vocational Enrollments	Handicapped		Disadvantaged	
		Enrollments	%	Enrollments	%
Trade & Industrial Education--Continued					
Chemical technology	20	0	0.0	6	30.0
Civil technology	36	3	8.3	8	22.2
Commercial art	1 565	185	11.8	625	39.9
Commercial photography	31	1	3.2	11	35.5
Communication electronics	712	73	10.3	[illegible]	[illegible]
Computer & information sciences	2 245	105	4.7	774	34.5
Computer servicing technology	146	12	8.2	31	21.2
Cosmetology	5 719	295	5.2	1 828	32.0
Diesel engine mechanics	734	124	16.9	206	28.1
Drafting	951	113	11.9	425	44.7
Drafting & design technology	147	4	2.7	45	30.6
Dryclean/laundering services	94	57	60.6	34	36.2
Electrical occupations	1 082	113	10.4	341	31.5
Electrical technology	434	17	3.9	200	46.1
Electrical, construction/maintenance	930	133	14.3	339	36.5
Electrical, industrial	326	39	12.0	107	32.8
Electromechanical technology	243	24	9.9	93	38.3
Electronic technology	1 834	63	3.4	588	32.1
Electronics	188	21	11.2	85	45.2
Engineering related technology	11	0	0.0	2	18.2
Environment control technology	104	8	7.7	58	55.8
Foundry work	8	4	50.0	2	25.0
Graphic arts	1 536	235	15.3	597	38.9
Graphics occupations	122	19	15.6	82	67.2
Heating	137	8	5.8	67	48.9
Heating, air cond, refrigeration	630	94	14.9	220	34.9
Heavy equipment maintenance/repair	229	32	14.0	57	24.9
Hydraulics/fluid power	7	0	0.0	3	42.9
Instrument maintenance/repair	21	1	4.8	18	85.7
Law enforcement	58	4	6.9	18	31.0
Lineworker	42	6	14.3	17	40.5
Machine shop	2 184	288	13.2	689	31.5
Masonry	1 397	336	24.1	466	33.4
Masonry occupations	60	11	18.3	19	31.7
Meatcutting	56	23	41.1	12	21.4
Mech drafting/design technology	991	61	6.2	336	33.9

TABLE 6

VOCATIONAL EDUCATION SECONDARY SPECIAL NEEDS ENROLLMENTS--Continued

1987-88

	Total Vocational Enrollments	Handicapped		Disadvantaged	
		Enrollments	%	Enrollments	%
Trade & Industrial Education--Concluded					
Mechanical drafting	10	1	10.0	1	10.0
Metal fabrication	197	29	14.7	77	39.1
Metallurgical technology	17	3	17.6	8	47.1
Metalworking occupations	88	10	11.4	48	54.5
Millwork & cabinet making	899	216	24.0	325	36.2
Mine equipment maintenance	25	3	12.0	11	44.0
Multi-skill trade & industry	444	136	30.6	308	69.4
Optical technology	18	1	5.6	15	83.3
Painting and decorating	221	72	32.6	51	23.1
Patternmaking	20	1	5.0	14	70.0
Petroleum technology	56	13	23.2	8	14.3
Plumbing	910	193	21.2	263	28.9
Power mechanics occupations	107	11	10.3	26	24.3
Printing press operations	53	13	24.5	37	69.8
Security services	36	6	16.7	12	33.3
Sheet metal	205	42	20.5	85	41.5
Shoe and boot repair	79	19	24.1	60	75.9
Silk screen printing	30	0	0.0	30	100.0
Small engine repair	372	121	32.5	98	26.3
Tool & die design technology	44	0	0.0	15	34.1
Tool and die making	95	4	4.2	15	15.8
Typesetting & composition	7	1	14.3	6	85.7
Upholstering	154	80	51.9	40	26.0
Welding	1 870	445	23.8	635	34.0
Not Elsewhere Classified	5 191	1 602	30.9	1 649	31.8
Diversified occupations	2 848	326	11.4	590	20.7
Pre-vocational/vocational assessment	374	66	17.6	308	82.4
Vocational education, other	1 969	1210	61.5	751	38.1
Consumer and Homemaking Education	37 439	2 296	6.1	8 842	23.6
Child development	41	6	14.6	33	80.5
Clothing and textiles	127	7	5.5	63	49.6

TABLE 6

VOCATIONAL EDUCATION SECONDARY SPECIAL NEEDS ENROLLMENTS--Concluded
1987-88

	Total Vocational Enrollments	Handicapped		Disadvantaged	
		Enrollments	%	Enrollments	%
Consumer and Homemaking Education--Concluded					
Comprehensive home economics	37 256	2 278	6.1	8 742	23.5
Food and nutrition	15	5	33.3	4	26.7
Industrial Arts Education	600	39	6.5	205	34.2
Industrial arts	600	39	6.5	205	34.2

NOTE: These data do not include 1214 students in state correctional institutions.

FIGURE 10
VOCATIONAL EDUCATION SECONDARY SPECIAL NEEDS ENROLLMENTS BY SEX
1987-88

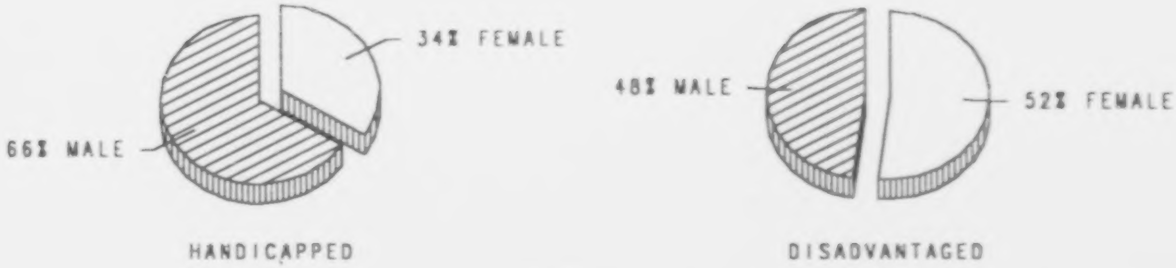
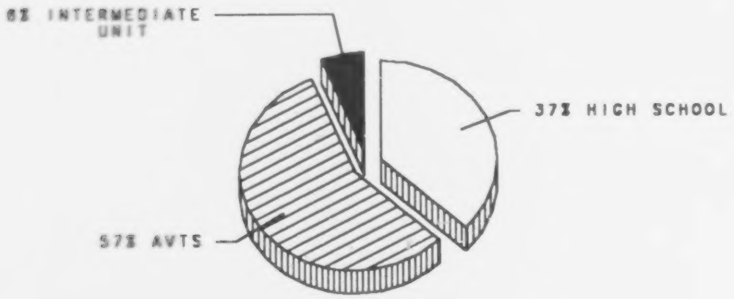


FIGURE 11
VOCATIONAL EDUCATION SECONDARY SPECIAL NEEDS
ENROLLMENTS BY TYPE OF INSTITUTION
1987-88



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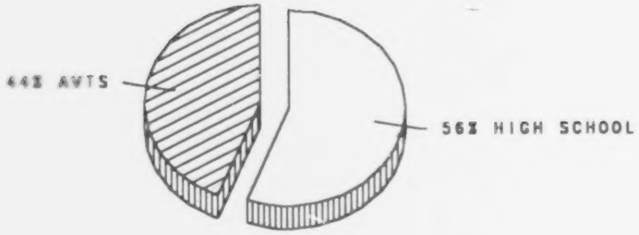
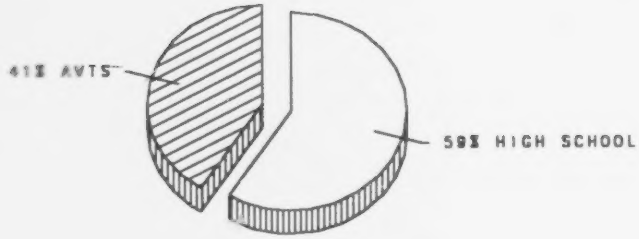


DISADVANTAGED
(Includes limited English proficiency)



LIMITED ENGLISH PROFICIENCY

TABLE 7

FOLLOW-UP OF COMPLETERS OF APPROVED VOCATIONAL EDUCATION SECONDARY PROGRAMS
1986-87

	Completers	Percent of Respondents						
		Gainfully Placed					Unemployed	
		Employed Related to Training	Employed Not Related to Training	Military Service	Pursuing Additional Education	Total	Unemployed Looking	Unemployed Not Looking
Total	40 249	36.3	23.8	6.7	23.7	90.4	6.4	3.2
Agriculture Education	2 000	29.4	33.3	11.4	17.7	91.8	4.7	3.6
Agribusiness & ag prod, other	45	23.5	11.8	0.0	64.7	100.0	0.0	0.0
Agricultural mechanics	244	30.6	37.6	14.1	14.1	96.5	2.4	1.2
Agricultural production	1 128	31.4	31.4	12.1	18.0	92.8	4.7	2.5
Agricultural products	26	30.8	7.7	23.1	30.8	92.3	7.7	0.0
Agricultural resources	37	0.0	69.2	23.1	0.0	92.3	7.7	0.0
Agricultural services & supplies	29	41.7	0.0	8.3	50.0	100.0	0.0	0.0
Agricultural technology	10	20.0	60.0	0.0	20.0	100.0	0.0	0.0
Forestry prod/processing	47	13.0	30.4	26.1	13.0	82.6	8.7	8.7
Horticulture	416	27.7	39.8	5.4	13.3	86.1	5.4	8.4
Lumbering	18	33.3	33.3	22.2	0.0	88.9	11.1	0.0
Business Education	15 268	33.7	19.1	3.4	34.5	90.8	6.0	3.2
Accounting, general	4 672	18.8	22.3	4.5	47.5	93.0	4.9	2.1
Business data processing	517	37.8	21.6	5.8	27.8	92.9	5.0	2.1
Business education, other	8	0.0	0.0	0.0	33.3	33.3	66.7	0.0
Secretarial, general	4 304	47.9	15.5	1.8	26.7	91.9	4.7	3.4
Typing, general office	5 767	33.5	19.5	3.9	30.5	87.3	8.4	4.3
Health Occupations Education	1 555	38.5	18.1	1.2	28.1	85.8	7.9	6.3
Clinical lab assisting	38	0.0	13.3	6.7	66.7	86.7	6.7	6.7
Dental assisting	159	45.2	12.3	2.7	23.3	83.6	5.5	11.0
Dental lab technology	20	50.0	0.0	0.0	33.3	83.3	0.0	16.7
Health assisting	882	42.8	18.9	0.9	23.9	86.5	7.6	5.9
Health related technology	81	14.3	14.3	0.0	64.3	92.9	7.1	0.0
Home health aide	40	21.1	26.3	0.0	15.8	63.2	15.8	21.1
Medical assisting	93	38.5	19.2	0.0	38.5	96.2	1.9	1.9
Microbiology technology	12	50.0	25.0	0.0	25.0	100.0	0.0	0.0
Nursing assisting	230	25.0	20.3	1.6	31.3	78.1	17.2	4.7

TABLE 7

FOLLOW-UP OF COMPLETERS OF APPROVED VOCATIONAL EDUCATION SECONDARY PROGRAMS--Continued
1986-87

		Percent of Respondents						
		Gainfully Placed					Unemployed	
	Completers	Employed Related to Training	Employed Not Related to Training	Military Service	Pursuing Additional Education	Total	Unemployed Looking	Unemployed Not Looking
Marketing and Distributive Education	2 267	33.7	25.6	5.9	21.5	86.7	9.3	4.1
Marketing & distribution	2 037	34.9	24.4	5.7	22.0	87.0	9.0	4.1
Marketing hotel/motel services	15	0.0	25.0	0.0	25.0	50.0	25.0	25.0
Passenger transport marketing	40	23.8	33.3	4.8	38.1	100.0	0.0	0.0
Warehouse services marketing	175	26.8	35.2	8.5	11.3	81.7	14.1	4.2
Occupational Home Economics Education	1 902	36.8	25.0	4.9	14.6	81.2	12.4	6.3
Baking	112	23.3	44.2	4.7	9.3	81.4	11.6	7.0
Child care services	188	22.0	37.3	1.7	25.4	86.4	10.2	3.4
Cloth/textiles mgt/prod	134	41.7	33.3	0.0	16.7	91.7	4.2	4.2
Custodial services	23	0.0	100.0	0.0	0.0	100.0	0.0	0.0
Food prod, mgmnt, & services	1 305	41.0	20.8	6.0	13.2	81.0	12.6	6.4
Institution/home mgmnt services	23	0.0	50.0	0.0	0.0	50.0	12.5	37.5
Interior design	10	0.0	33.3	0.0	33.3	66.7	33.3	0.0
Occupational home economics, other	10	33.3	0.0	0.0	0.0	33.3	66.7	0.0
Power sewing	51	0.0	14.3	0.0	42.9	57.1	42.9	0.0
Tailoring	46	0.0	20.0	0.0	40.0	60.0	20.0	20.0
Trade and Industrial Education	14 797	38.3	27.6	10.0	15.6	91.5	6.1	2.4
Aircraft mechanics	11	0.0	0.0	0.0	66.7	66.7	33.3	0.0
Appliance repair	99	36.8	36.8	10.5	10.5	94.7	2.6	2.6
Arch design technology	25	36.4	18.2	0.0	45.5	100.0	0.0	0.0
Audio-visual communications	51	16.7	16.7	11.1	38.9	83.3	5.6	11.1
Auto diesel mechanics	78	39.5	23.7	5.3	13.2	81.6	10.5	7.9
Automotive body repair	951	32.4	38.5	12.5	8.3	91.7	7.0	1.2
Automotive mechanics	1 502	42.5	29.8	10.5	9.8	92.6	6.1	1.3
Automotive occupations	44	12.5	50.0	6.3	18.8	87.5	12.5	0.0
Automotive specialist	122	55.0	12.5	20.0	10.0	97.5	2.5	0.0
Building construct occupations	194	44.6	23.0	14.9	8.1	90.5	8.1	1.4
Building trades maintenance	439	40.6	27.7	11.0	9.0	88.4	9.0	2.6
Carpentry	1 217	49.6	27.7	9.0	8.6	94.8	4.4	0.8
Chemical technology	24	5.6	11.1	0.0	77.8	94.4	0.0	5.6
Civil technology	18	0.0	16.7	33.3	33.3	83.3	16.7	0.0
Commercial art	475	17.1	28.3	6.4	39.0	90.9	4.3	4.8

TABLE 7

FOLLOW-UP OF COMPLETERS OF APPROVED VOCATIONAL EDUCATION SECONDARY PROGRAMS--Continued
1986-87

		Percent of Respondents						
		Gainfully Placed					Unemployed	
	Completers	Employed Related to Training	Employed Not Related to Training	Military Service	Pursuing Additional Education	Total	Unemployed Looking	Unemployed Not Looking
Trade and Industrial Education--Continued								
Commercial photography	5	75.0	25.0	0.0	0.0	100.0	0.0	0.0
Communication electronics	172	19.4	16.1	16.1	41.9	93.5	6.5	0.0
Computer & information sciences	875	25.6	25.8	11.8	28.9	92.2	5.7	2.1
Computer servicing technology	24	0.0	22.2	0.0	77.8	100.0	0.0	0.0
Cosmetology	1 802	46.1	31.0	0.8	7.9	85.8	7.0	7.2
Diesel engine mechanics	254	36.2	34.3	6.7	18.1	95.2	4.8	0.0
Drafting	333	24.8	23.9	8.5	34.2	91.5	6.0	2.6
Drafting & design technology	67	21.2	15.2	18.2	45.5	100.0	0.0	0.0
Dryclean/laundering services	12	0.0	0.0	40.0	20.0	60.0	40.0	0.0
Electrical occupations	277	36.4	23.1	11.6	20.7	91.7	6.6	1.7
Electrical technology	99	46.3	24.4	14.6	9.8	95.1	4.9	0.0
Electrical, construction/maintenance	364	40.0	21.9	13.8	16.9	92.5	5.6	1.9
Electrical, industrial	137	46.8	12.9	9.7	24.2	93.5	3.2	3.2
Electromechanical technology	68	13.8	34.5	20.7	24.1	93.1	6.9	0.0
Electronic technology	653	18.4	19.6	18.4	39.6	95.9	3.8	0.3
Electronics	63	11.1	14.8	18.5	51.9	96.3	3.7	0.0
Engineering related technology	10	14.3	42.9	0.0	42.9	100.0	0.0	0.0
Environment control technology	23	33.3	22.2	11.1	11.1	77.8	22.2	0.0
Foundry work	5	100.0	0.0	0.0	0.0	100.0	0.0	0.0
Graphic arts	436	38.7	24.3	6.4	15.0	84.4	10.4	5.2
Graphics occupations	46	6.7	26.7	13.3	40.0	86.7	6.7	6.7
Heating	65	53.1	21.9	9.4	15.6	100.0	0.0	0.0
Heating, air cond, refrigeration	208	39.1	33.3	10.3	8.0	90.8	4.6	4.6
Heavy equipment maintenance/repair	64	48.1	22.2	18.5	11.1	100.0	0.0	0.0
Instrument maintenance/repair	9	0.0	0.0	100.0	0.0	100.0	0.0	0.0
Law enforcement	30	6.3	31.3	31.3	6.3	75.0	25.0	0.0
Lineworker	20	22.2	33.3	11.1	11.1	77.8	22.2	0.0
Machine shop	841	51.4	23.5	9.3	9.3	93.4	5.7	0.8
Masonry	435	45.4	30.1	9.2	4.1	88.8	8.7	2.6
Masonry occupations	28	9.1	63.6	9.1	0.0	81.8	18.2	0.0
Meatcutting	29	50.0	7.1	7.1	21.4	85.7	14.3	0.0
Mech drafting/design technology	285	23.2	19.0	16.2	35.9	94.4	5.6	0.0
Mechanical drafting	24	0.0	80.0	0.0	20.0	100.0	0.0	0.0
Metal fabrication	75	32.3	35.5	12.9	3.2	83.9	12.9	3.2
Metallurgical technology	12	0.0	33.3	16.7	50.0	100.0	0.0	0.0

TABLE 7

FOLLOW-UP OF COMPLETERS OF APPROVED VOCATIONAL EDUCATION SECONDARY PROGRAMS--Concluded
1986-87

		Percent of Respondents						
		Gainfully Placed					Unemployed	
	Completers	Employed Related to Training	Employed Not Related to Training	Military Service	Pursuing Additional Education	Total	Unemployed Looking	Unemployed Not Looking
Trade and Industrial Education--Concluded								
Metalworking occupations	15	100.0	0.0	0.0	0.0	100.0	0.0	0.0
Millwork & cabinet making	281	40.2	31.8	15.9	4.7	92.5	6.5	0.9
Mine equipment maintenance	8	50.0	25.0	25.0	0.0	100.0	0.0	0.0
Optical technology	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Painting and decorating	65	45.5	36.4	4.5	9.1	95.5	0.0	4.5
Patternmaking	6	50.0	50.0	0.0	0.0	100.0	0.0	0.0
Petroleum technology	22	27.3	18.2	27.3	18.2	90.9	9.1	0.0
Photo engraving	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plumbing	281	43.4	32.7	14.2	5.3	95.6	1.8	2.7
Power mechanics occupations	34	62.5	18.8	6.3	6.3	93.8	6.3	0.0
Printing press operations	13	40.0	20.0	0.0	0.0	60.0	40.0	0.0
Security services	4	0.0	100.0	0.0	0.0	100.0	0.0	0.0
Sheet metal	74	42.9	28.6	21.4	0.0	92.9	3.6	3.6
Shoe and boot repair	10	0.0	100.0	0.0	0.0	100.0	0.0	0.0
Small engine repair	137	42.0	36.0	8.0	6.0	92.0	6.0	2.0
Tool & die design technology	16	20.0	40.0	20.0	20.0	100.0	0.0	0.0
Tool and die making	38	83.3	4.2	0.0	4.2	91.7	4.2	4.2
Typesetting & composition	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Upholstering	49	14.3	57.1	0.0	21.4	92.9	7.1	0.0
Vending machine repair	3	0.0	0.0	0.0	0.0	0.0	100.0	0.0
Welding	628	46.6	29.2	12.3	4.3	92.5	7.1	0.4
Not Elsewhere Classified	2 460	47.5	22.7	7.7	14.4	92.4	4.0	3.6
Diversified occupations	2 399	48.2	22.7	8.0	14.6	93.4	3.5	3.1
Vocational education, other	61	21.7	26.1	0.0	8.7	56.5	21.7	21.7

NOTE: A student is counted in only one of the employment status categories. A student who is "pursuing additional education" and either "employed not related to training," "unemployed looking", or "unemployed not looking" is counted as "pursuing additional education." A student who is "pursuing additional education" and "employed related to training" is counted as "employed related to training"; a student who is "pursuing additional education" and "military service" is counted as "military service."

TABLE 8

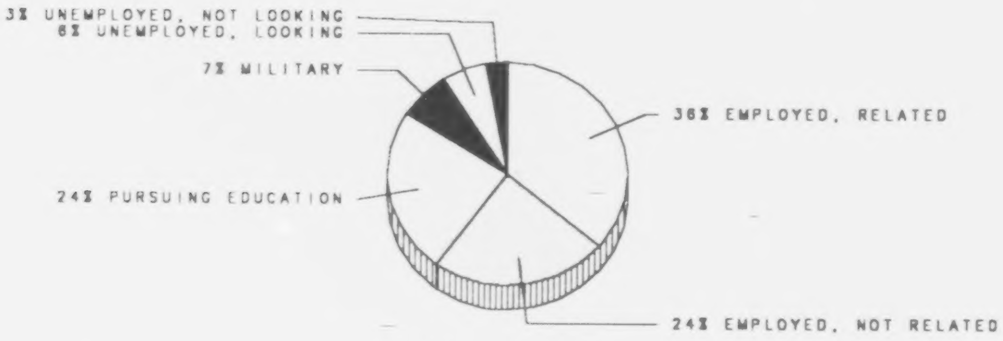
FOLLOW-UP OF COMPLETERS OF APPROVED VOCATIONAL EDUCATION SECONDARY PROGRAMS BY TYPE OF INSTITUTION

1986-87

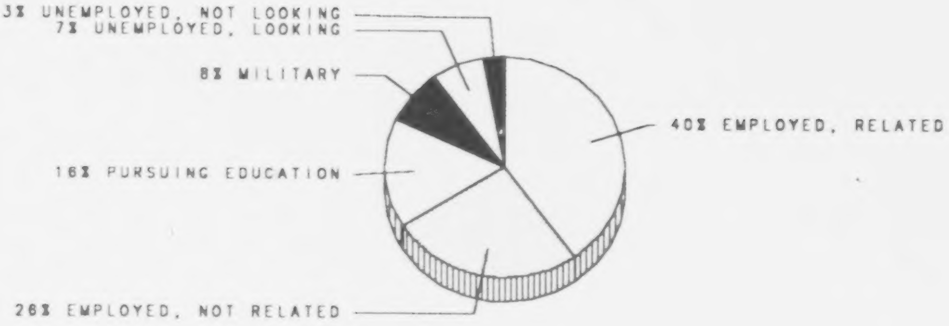
		Percent of Respondents						
		Gainfully Placed					Unemployed	
	Completers	Employed Related to Training	Employed Not Related to Training	Military Service	Pursuing Additional Education	Total	Unemployed Looking	Unemployed Not Looking
TOTAL	40 249	36.3	23.8	6.7	23.7	90.4	6.4	3.2
High School	21 478	32.8	21.3	5.3	31.5	90.9	6.0	3.1
AVTS	18 771	39.7	26.2	8.0	15.9	89.8	6.8	3.4
Agriculture Education	2 000	29.4	33.3	11.4	17.7	91.8	4.7	3.6
High School	1 491	29.3	30.1	13.8	19.9	93.1	4.5	2.4
AVTS	509	29.8	41.6	5.0	11.8	88.2	5.0	6.8
Business Education	15 268	33.7	19.1	3.4	34.5	90.8	6.0	3.2
High School	14 169	32.9	19.4	3.3	35.2	90.8	5.9	3.3
AVTS	1 099	43.0	15.8	4.7	26.7	90.2	8.0	1.8
Health Occupations Education	1 555	38.5	18.1	1.2	28.1	85.8	7.9	6.3
High School	287	10.5	24.4	1.2	46.5	82.6	11.6	5.8
AVTS	1 268	42.5	17.2	1.2	25.4	86.3	7.4	6.4
Marketing and Distributive Education	2 267	33.7	25.6	5.9	21.5	86.7	9.3	4.1
High School	1 304	29.6	23.0	7.5	31.1	91.2	7.0	1.8
AVTS	963	37.7	28.0	4.4	12.1	82.2	11.4	6.3
Occupational Home Economics Education	1 902	36.8	25.0	4.9	14.6	81.2	12.4	6.3
High School	567	20.5	27.0	5.8	28.5	81.8	12.4	5.8
AVTS	1 335	40.8	24.5	4.7	11.1	81.1	12.4	6.5
Trade and Industrial Education	14 797	38.3	27.6	10.0	15.6	91.5	6.1	2.4
High School	1 722	23.3	26.8	14.2	24.9	89.2	10.1	.7
AVTS	13 075	39.4	27.6	9.7	14.9	91.6	5.8	2.5
Not Elsewhere Classified	2 460	47.5	22.7	7.7	14.4	92.4	4.0	3.6
High School	1 938	48.1	22.7	7.4	15.2	93.4	3.3	3.3
AVTS	522	44.8	23.1	9.0	10.9	87.8	7.1	5.1

NOTE: A student is counted in only one of the employment status categories. A student who is "pursuing additional education" and either "employed not related to training," "unemployed looking," or "unemployed not looking" is counted as "pursuing additional education." A student who is "pursuing additional education" and "employed related to training" is counted as "employed related to training"; a student who is "pursuing additional education" and "military service" is counted as "military service."

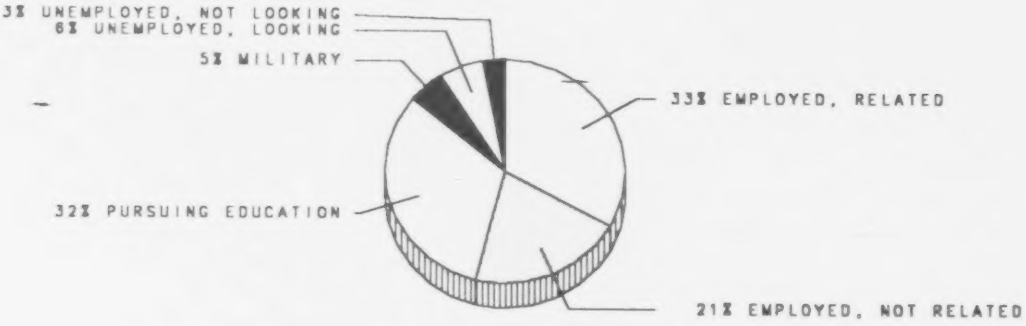
FIGURE 12
FOLLOW-UP OF COMPLETERS OF APPROVED
VOCATIONAL EDUCATION SECONDARY PROGRAMS
1986-87



TOTAL SECONDARY



AVTS ONLY



HIGH SCHOOL ONLY

TABLE 9

AVERAGE SALARY OF COMPLETERS OF APPROVED
VOCATIONAL EDUCATION SECONDARY PROGRAMS
1986-87

	Average Hourly Salary		
	Total	Male	Female
TOTAL	$ 5.75	$ 6.34	$ 5.23
Agriculture Education	5.16	5.30	4.65
Business Education	5.48	5.66	5.47
Health Occupations Education	4.97	4.85 1/	4.98
Marketing and Distributive Education	4.93	5.41	4.76
Occupational Home Economics Education	4.68	5.15	4.41
Trade and Industrial Education	6.21	6.50	4.72
Not Elsewhere Classified	5.93	6.71	5.22

1/ Less than 30 respondents.

NOTE: The average hourly salary was computed from salaries reported by student follow-up respondents employed 35 or more hours per week in a field related to their training.

TABLE 10

TEACHERS OF APPROVED VOCATIONAL EDUCATION SECONDARY PROGRAMS BY AGE
1987-88

	Total	Age Groups				
		21-30	31-40	41-50	51-60	Over 60
TOTAL	5 554	414	1 553	1 848	1 355	384
Agriculture Education	289	52	113	84	35	5
Business Education	2 295	164	570	913	519	129
Health Occupations Education	142	7	37	47	43	8
Marketing and Distributive Education	154	8	48	51	35	12
Occupational Home Economics Education	211	22	66	52	53	18
Trade and Industrial Education	1 567	104	342	428	519	174
Not Elsewhere Classified	108	4	36	39	23	6
Consumer and Homemaking Education	769	49	338	225	126	31
Industrial Arts Education	19	4	3	9	2	1

FIGURE 13
TEACHERS OF APPROVED VOCATIONAL EDUCATION SECONDARY PROGRAMS BY SEX
1987-88

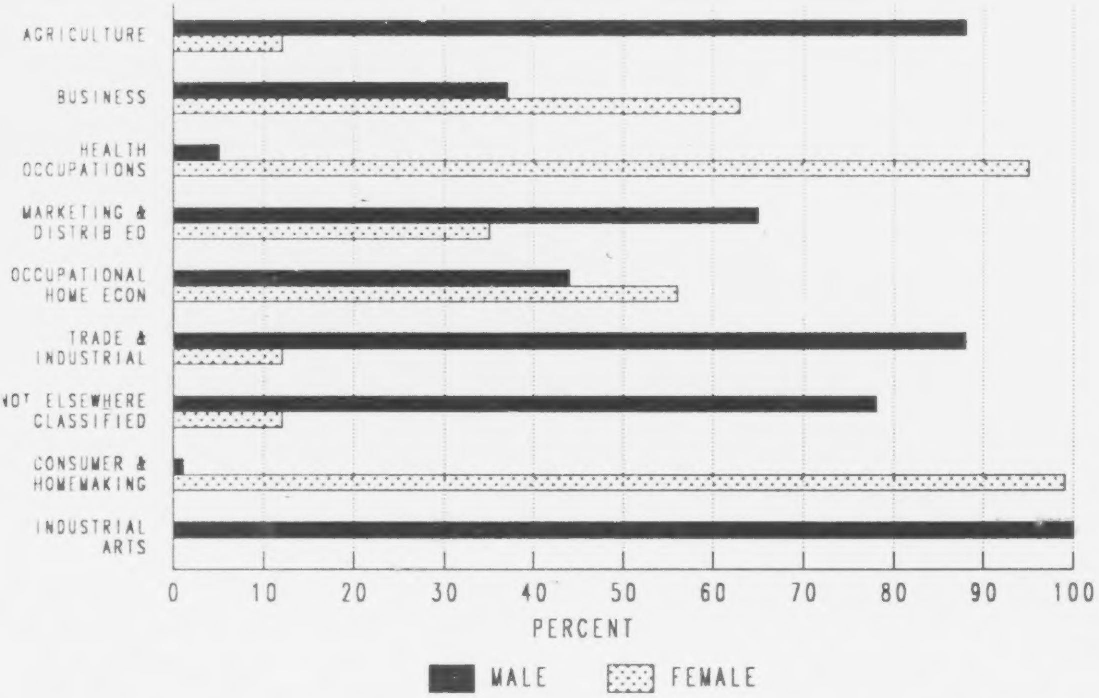


TABLE 11

TEACHERS OF APPROVED VOCATIONAL EDUCATION SECONDARY PROGRAMS BY EDUCATION LEVEL AND AVERAGE ANNUAL SALARY 1987-88

	Total	Education Level						Average Annual Salary
		High School or Less	College 1 to 2 Years	College 3 Years	Bachelor's Degree	Master's Degree	Doctorate	
TOTAL	5 554	93	665	267	2 194	2 300	35	$ 28,764
Agriculture Education	289	0	4	3	163	111	8	27,700
Business Education	2 295	0	1	0	1 099	1 183	12	29,439
Health Occupations Education	142	0	22	20	44	54	2	27,588
Marketing and Distributive Education	154	0	3	4	52	90	5	31,008
Occupational Home Economics Education	211	5	44	19	71	72	0	28,486
Trade and Industrial Education	1 567	87	585	219	206	465	5	28,681
Not Elsewhere Classified	108	0	6	2	39	60	1	30,721
Consumer and Homemaking Education	769	1	0	0	515	251	2	26,724
Industrial Arts Education	19	0	0	0	5	14	0	32,767

NOTE: The average annual salary was calculated from salaries reported for teachers of vocational programs who are on full-time status.

APPENDIX A

GLOSSARY

ADULTS IN SECONDARY PROGRAMS - Enrollees in approved secondary vocational programs who are high school graduates or who have left high school prior to graduation.

APPROVED PROGRAM - A program certified in writing by the Pennsylvania Department of Education as meeting the state regulations and standards for vocational education.

AREA VOCATIONAL-TECHNICAL SCHOOL (AVTS) - A specialized high school used principally for providing vocational education.

CAPSTONE - A cooperative education activity designed to enhance ("cap-off") the formal in-school vocational education program with a related employment experience.

COMPLETER - A student who has completed a planned sequence of courses designed to meet a vocational occupational objective.

COOPERATIVE EDUCATION - A method of providing on-the-job experience in a vocational education program. Through written arrangement between the school and employer, the student receives instruction, including required academic courses and related vocational instruction, by alternation of study in school with a job in any occupational field.

DELETED PROGRAM - A program that has been removed from the file of approved vocational programs by the Pennsylvania Department of Education for one of the following reasons: 1) failure to report enrollments for more than two consecutive years; or 2) failure to comply with program reporting and/or compliance requirements of the Department.

DISADVANTAGED - A student who is either academically or economically disadvantaged for reason other than handicapped. Includes those who are of limited English proficiency.

DIVERSIFIED OCCUPATIONS - A cooperative education activity for a heterogenous group of students from more than one vocational education program or for students having a vocational career objective that cannot be met by any of the school's existing vocational programs.

HANDICAPPED - A student evaluated as being brain damaged, deaf, hearing impaired, learning disabled, mentally retarded educable, mentally retarded trainable, mentally retarded severely/profoundly, physically handicapped, socially and emotionally disturbed, speech and language impaired, or visually impaired, who because of those impairments requires special education and related services.

INCARCERATED JUVENILE - An adjudicated juvenile delinquent (under 18 years of age, with certain exceptions) in a state correctional institution for youths.

LIMITED ENGLISH PROFICIENCY - A student who is a member of a national-origin minority who does not speak and understand the English language in an instructional setting well enough to benefit from vocational studies to the same extent as a student whose primary language is English. These students are considered to be disadvantaged.

NEW PROGRAM - A program which received approval from the Pennsylvania Department of Education to begin operating during the current school year.

NOT ELSEWHERE CLASSIFIED - A single-skill or special vocational education program that cannot be classified under any of the other eight program fields.

OCCUPATIONAL PROGRAM - A vocational education program that prepares students for employment. Includes all vocational education reported except consumer and homemaking education and industrial arts education.

PUBLIC SCHOOL ENROLLMENTS - An unduplicated headcount of students reported to the Pennsylvania Department of Education as being enrolled as of October 1 of the current school year.

RACIAL/ETHNIC CATEGORIES:

AMERICAN INDIAN/ALASKAN NATIVE - A person having origins in any of the original peoples of North America, and who maintains cultural identification through tribal affiliation or community recognition.

ASIAN/PACIFIC ISLANDER - A person having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands. The areas include, for example, China, Japan, Korea, India, the Philippine Islands, and Samoa.

BLACK (NON-HISPANIC) - A person having origins in any of the black racial groups of Africa.

HISPANIC - A person of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race.

WHITE (NON-HISPANIC) - A person having origins in any of the original peoples of Europe, North America, or the Middle East.

SECONDARY PROGRAM - A vocational education program offered in public secondary schools, intermediate units, and state correctional institutions to students in grades nine through twelve (including ungraded students in the same age group as those students in grades nine through twelve, and adults enrolled in secondary programs).

SPECIAL NEEDS ENROLLMENTS - Students reported as handicapped or disadvantaged, including those who are of limited English proficiency.

TERMINATED PROGRAM - A program which, on the initiative of the local education agency, has been removed from the Pennsylvania Department of Education's file of approved programs.

APPENDIX B

SOURCES

1. Vocational Secondary Students Aggregate Enrollment Report (PDE-4051)

2. Adults Enrolled in Approved Secondary Vocational Programs (PDE-4090)

3. Specially Federally Funded Handicapped and Disadvantaged Vocational Students Aggregate Enrollment Report (PDE-4046-B)

4. Secondary Vocational Student Follow-up (PDE-4519)

5. Vocational Education Professional Personnel (Secondary Level) (PDE-5023)

6. First Interim Report from the National Assessment of Vocational Education. United States Department of Education, January 1988.

Colleges and Universities

Degrees and Awards Conferred
1987-88

DDS
Data Series

Pennsylvania Department of Education 1989

Colleges and Universities

Degrees and Awards Conferred
1987-88

This is one in a series of publications containing statistical summaries related to basic education, postsecondary education, and vocational education in Pennsylvania. For more detailed data, contact the Division of Data Services at (717) 787-2644.

Commonwealth of Pennsylvania
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Department of Education
Thomas K. Gilhool, Secretary

Bureau of Information Systems
Bruce J. Cowling, Director

Division of Data Services
Roger G. Hummel, Chief
Compiled by: Donald D. Deitz, Educational Statistics Associate

April 1989

Pennsylvania Department of Education
333 Market Street
Harrisburg, PA 17126-0333

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HIGHLIGHTS

* There were 90,447 associate and higher degrees granted. By level of award, there were 12,718 associate, 58,323 bachelor's, 3,721 first-professional, 13,799 master's, and 1,886 doctor's degrees.

* Compared to the 1986-87 data, associate degrees decreased by 5.1 percent, bachelor's degrees increased by 2.0 percent, first-professional degrees decreased by 1.3 percent, master's degrees increased by 2.2 percent, and doctor's degrees increased by 4.7 percent.

* Of all bachelor's degrees conferred in 1987-88, 24.9 percent were in business and management which is up from 19.8 percent in 1978-79.

* Of all reported degrees, 52.0 percent were granted to women.

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OVERVIEW

The number of degrees conferred in 1987-88 showed a slight increase over the number of degrees conferred in 1986-87. Overall, there has been a 4.4 percent increase in total degrees conferred since 1978-79. The greatest percentage of this total can be found at the bachelor's degree level, where growth since 1978-79 has been 3,985 bachelor's degrees (an increase of 7.3 percent).

The number of bachelor's degrees in certain major areas has changed substantially since 1978-79. In 1978-79, 19.8 percent of all bachelor's degrees were awarded in business and management. By 1987-88, that percentage had risen to 24.9. Similar comparisons show increases for computer and information sciences from 0.9 percent to 3.8 percent; for engineering from 7.5 percent to 8.8 percent; and for health professions from 6.4 percent to 7.8 percent.

Conversely, bachelor's degrees in education and the social sciences have fallen. Whereas education comprised 14.2 percent of all bachelor's degrees in 1978-79, it now accounts for only 8.6 percent. Likewise, social sciences fell from 12.0 percent to 9.4 percent of all bachelor's degrees.

However, comparing 1987-88 to 1986-87, there were decreases of 14.3 percent and 3.2 percent in computer and information sciences and engineering respectively. On the other hand, increases of 4.3 percent and 6.8 percent were seen in education and social sciences respectively.

The most recent available national data is that of 1985-86. When comparing Pennsylvania's distribution of degree levels with national data, (associate's, bachelor's, master's, and doctor's degrees) a similar trend can be found. Bachelor's degrees had the largest percentage at 67.2 and 56.3 respectively, while doctor's degrees had the smallest percentage at 2.2 and 1.9 respectively. Another similarity can be found at the bachelor's level, comparing the same data for certain major areas. Business and management had the largest percentage while computer and information sciences had the smallest percentage.

Comparing the 1986 fall enrollments from *Higher Education Fall Enrollments, 1986* 1/ with the 1986-87 degrees conferred, Black, non-Hispanics comprised 6.3 percent of the enrollments and 4.5 percent of the graduates, America Indian or Alaskan Natives comprised 0.2 percent of the enrollments and 0.1 percent of the graduates, Asian or Pacific Islanders comprised 1.6 percent of the enrollments and 1.7 percent of the graduates, Hispanics comprised 0.9 percent of the enrollments and 0.8 percent of the graduates, and White, non-Hispanics comprised 88.8 percent of the enrollments and 90.2 percent of the graduates.

1/ *Higher Education Fall Enrollments, 1986*, Pennsylvania Department of Education, Division of Data Services

TABLE 1

ASSOCIATE AND HIGHER DEGREES CONFERRED BY RACIAL/ETHNIC CATEGORY FOR SELECTED YEARS, 1978-79 THROUGH 1986-87

	Total Degrees	American Indian or Alaskan Native	Asian or Pacific Islander	Black Non - Hispanic	Hispanic	White Non-Hispanic	Non-Resident Alien	Unidentified
1978-79	86 626	219	542	4 458	532	77 110	1 738	2 027
1980-81	86 280	119	781	4 362	535	78 635	1 538	310
1982-83	90 467	131	1 039	4 205	606	82 051	2 435	-
1984-85	90 437	120	1 268	4 094	743	81 825	2 387	-
1986-87	89 650	106	1 492	4 011	729	80 879	2 433	-

Note: Racial/ethnic data is collected biennially.
A dash (-) means "not applicable".

For the 1978-79 year, there were 5,751 minorities identified as receiving an associate or higher degree which accounted for 6.6 percent of all degrees conferred. By comparison, 6,338 minority graduates comprised 7.1 percent of the 1986-87 total.

FIGURE 1
DEGREES CONFERRED BY LEVEL OF PROGRAM
1987-88

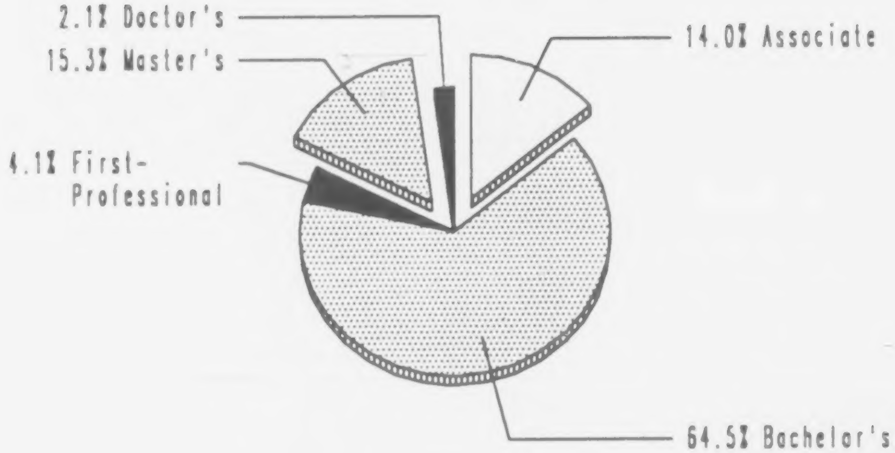

TABLE 2

ASSOCIATE AND HIGHER DEGREES CONFERRED BY INSTITUTIONAL CATEGORY
1978-79 THROUGH 1987-88

	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88
TOTAL, ALL INSTITUTIONS	86 626	86 469	86 280	88 231	90 467	90 026	90 437	89 621	89 650	90 447
Associate Degrees	13 075	12 671	12 877	13 526	14 322	14 642	14 477	13 879	13 406	12 718
Bachelor's Degrees	54 338	55 121	54 589	55 600	57 231	56 541	57 014	56 781	57 172	58 323
First-Professional Degrees	3 779	3 762	3 791	3 674	3 740	3 812	3 717	3 790	3 769	3 721
Master's Degrees	13 775	13 246	13 356	13 619	13 411	13 175	13 378	13 364	13 501	13 799
Doctor's Degrees	1 659	1 669	1 667	1 812	1 763	1 858	1 851	1 807	1 802	1 886
STATE UNIVERSITIES	15 342	15 158	14 502	14 494	14 370	14 585	14 292	14 831	15 136	15 144
Associate Degrees	131	120	136	164	241	310	268	272	301	280
Bachelor's Degrees	12 572	12 651	12 020	12 017	12 088	12 340	12 147	12 550	12 828	12 824
Master's Degrees	2 634	2 369	2 325	2 296	2 024	1 919	1 864	1 997	1 992	2 006
Doctor's Degrees	5	18	21	17	17	16	13	12	15	34
STATE-RELATED COMMONWEALTH UNIVERSITIES	24 445	23 812	23 662	24 224	25 272	23 311	23 291	23 223	22 810	22 906
Associate Degrees	1 800	1 674	1 844	2 132	2 335	2 132	1 743	1 585	1 464	1 427
Bachelor's Degrees	15 463	15 290	14 758	15 017	15 911	14 561	14 981	15 155	14 986	14 921
First-Professional Degrees	1 240	1 183	1 214	1 157	1 235	1 176	1 204	1 204	1 153	1 144
Master's Degrees	4 962	4 646	4 855	4 851	4 744	4 439	4 321	4 248	4 166	4 363
Doctor's Degrees	980	1 019	991	1 067	1 047	1 003	1 042	1 031	1 041	1 051
COMMUNITY COLLEGES	7 962	7 905	7 891	8 163	8 463	8 867	9 194	8 879	8 726	8 271
Associate Degrees	7 962	7 905	7 891	8 163	8 463	8 867	9 194	8 879	8 726	8 271
PRIVATE STATE-AIDED INSTITUTIONS	8 957	9 229	9 424	9 812	10 024	10 347	10 153	10 172	9 808	10 056
Associate Degrees	293	262	278	277	241	267	269	240	212	147
Bachelor's Degrees	4 436	4 677	4 830	5 060	5 277	5 357	5 274	5 246	4 948	5 419
First-Professional Degrees	1 577	1 602	1 612	1 573	1 585	1 641	1 558	1 593	1 604	1 502
Master's Degrees	2 257	2 310	2 315	2 430	2 508	2 593	2 614	2 689	2 657	2 574
Doctor's Degrees	394	378	389	472	413	489	438	404	387	414
PRIVATE COLLEGES AND UNIVERSITIES	27 727	28 219	28 659	29 526	30 175	30 785	31 400	30 378	31 024	32 007
Associate Degrees	1 275	1 137	1 157	1 308	1 425	1 491	1 469	1 365	1 169	1 153
Bachelor's Degrees	21 842	22 491	22 963	23 490	23 939	24 268	24 590	23 811	24 382	25 143
First-Professional Degrees	598	619	647	629	620	692	642	667	655	705
Master's Degrees	3 788	3 764	3 670	3 890	3 972	4 082	4 434	4 275	4 545	4 713
Doctor's Degrees	224	208	222	209	219	252	265	260	273	293
THEOLOGICAL SEMINARIES	579	573	571	530	546	556	573	600	612	623
Bachelor's Degrees	25	12	18	16	16	15	22	19	28	16
First-Professional Degrees	364	358	318	315	300	303	313	326	357	370
Master's Degrees	134	157	191	152	163	140	145	155	141	143
Doctor's Degrees	56	46	44	47	67	98	93	100	86	94
PRIVATE JUNIOR COLLEGES	1 614	1 573	1 571	1 482	1 617	1 575	1 534	1 538	1 534	1 440
Associate Degrees	1 614	1 573	1 571	1 482	1 617	1 575	1 534	1 538	1 534	1 440

TABLE 3
COMPLETIONS BY MAJOR FIELD OF STUDY, LEVEL OF PROGRAM AND SEX
1987-88

STATE SUMMARY

CIP SHORT TITLE	AWARDS LT ONE YR		AWARDS LT TWO YR		ASSOCIATE DEGREE		AWARDS LT FOUR YR		BACHELOR DEGREE		POST-BACC		MASTER DEGREE		POST MASTER		DOCTOR DEGREE		1ST PROF DEGREE	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
01 AGRIBUS & AG PRODUCTION	665	313	47	5	35	36			98	28			7	1				1		
02 AGRICULTURAL SCIENCES	367	150							144	110			19	9			8	1		
03 RENEWABLE NAT RES	45	7			53	7			85	28			9	3			1			
04 ARCH & ENVIRON DESIGN					7	24	1	2	171	188			95	71			9	4		
05 AREA AND ETHNIC STUDIES	12	16	6	14				1	58	121			16	13	3	4	3	4		
06 BUSINESS AND MANAGEMENT	344	224	22	31	1071	1457	1		8119	6428	3440	560	2601	1167	1	2	53	13		
07 BUSINESS AND OFFICE	40	53	21	171	398	1402		1	44	133										
08 MARKETING & DISTRIBUTION			4	25	45	189			78	241			26	7						
09 COMMUNICATIONS				2	16	41			986	1426			56	88			4	1		
10 COMM TECHNOLOGIES					31	20			43	21										

TABLE 3
COMPLETIONS BY MAJOR FIELD OF STUDY, LEVEL OF PROGRAM AND SEX
1987-88

STATE SUMMARY

CIP SHORT TITLE	AWARDS LT ONE YR		AWARDS LT TWO YR		ASSOCIATE DEGREE		AWARDS LT FOUR YR		BACHELOR DEGREE		POST-BACC		MASTER DEGREE		POST MASTER		DOCTOR DEGREE		1ST PROF DEGREE	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
11 COMP & INFORMATION SCI	8	11	4	4	124	74			1545	692			380	101	14	9	30	5		
12 CONSUMR,PERSONL,MISC SERV	24	24		2	14	24														
13 EDUCATION					81	256			1021	3983	1	3	790	2146	1	2	234	258		
14 ENGINEERING	83	40			87	14			3602	690			970	167			246	23		
15 ENGNRG & ENGNRG-RLTD TECH	271	27	45	2	1155	106	33		602	66			20	7			3			
16 FOREIGN LANGUAGES					3				119	467			21	60			6	8		
17 ALLIED HEALTH	13	96	66	400	157	950	3	24	182	785	4	15	42	174						
18 HEALTH SCIENCES	6	57		1	122	1264			515	3088	40	20	201	827			42	47	1296	637
19 HOME ECONOMICS				1	2	3			56	390			6	68			5	8		
20 VOCATIONAL HOME ECONOMICS	359	268	5	40	67	230	19	22	17	96			2	5						

TABLE 3
COMPLETIONS BY MAJOR FIELD OF STUDY, LEVEL OF PROGRAM AND SEX
1987-88

STATE SUMMARY

CIP SHORT TITLE	AWARDS LT ONE YR		AWARDS LT TWO YR		ASSOCIATE DEGREE		AWARDS LT FOUR YR		BACHELOR DEGREE		POST-BACC		MASTER DEGREE		POST MASTER		DOCTOR DEGREE		1ST PROF DEGREE	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
22 LAW	29	280	2	27	16	117	8	20	39	48			52	25					835	544
23 LETTERS	1	9		2	6	15		14	851	1636			83	144			35	42		
24 LIBERAL/GENERAL STUDIES					657	1160	1		358	428			37	20			1			
25 LIBRARY & ARCHIVAL SCIENC				2		2			4	32			44	107			6	4		
26 LIFE SCIENCES	101	20			20	28			1132	1224			70	58			59	37		
27 MATHEMATICS					22	11			655	626			69	44			34	4		
30 MULTI/INTRDISCIPLINRY STU	2	10			16	28	3	5	426	358			53	74			19	9		
31 PARKS AND RECREATION	11	4			6				105	133			8	15			1			
36 LEISURE & RECREATION SERV						4														
38 PHILOSOPHY AND RELIGION						1			194	124			43	36			20	9		

TABLE 3
COMPLETIONS BY MAJOR FIELD OF STUDY, LEVEL OF PROGRAM AND SEX
1987-88

STATE SUMMARY

CIP SHORT TITLE	AWARDS LT ONE YR		AWARDS LT TWO YR		ASSOCIATE DEGREE		AWARDS LT FOUR YR		BACHELOR DEGREE		POST-BACC		MASTER DEGREE		POST MASTER		DOCTOR DEGREE		1ST PROF DEGREE	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
39 THEOLOGY	7	16	7	6	2	1	4	5	237	153	23	49	142	92			85	11	332	77
40 PHYSICAL SCIENCES	1				26	9			905	447			192	58			123	39		
41 SCIENCE TECHNOLOGIES			5	3	27	6			6											
42 PSYCHOLOGY					7	22			722	1773			84	185			51	68		
43 PROTECTIVE SERVICES	2		62	13	230	102			585	310			40	26						
44 PUBLIC AFFAIRS	34	17	5	3	16	32			190	646			533	670	33	38	19	17		
45 SOCIAL SCIENCES					54	56			3135	2371			218	124	1		97	50		
46 CONSTRUCTION TRADES	51	4	19	1	19		164	3	10	1										
47 MECHANICS AND REPAIRERS	9		33		57	3	94													
48 PRECISION PRODUCTION	8	5	2		130	63	69	1	16	3										

TABLE 3
COMPLETIONS BY MAJOR FIELD OF STUDY, LEVEL OF PROGRAM AND SEX
1987-88

STATE SUMMARY

CIP SHORT TITLE	AWARDS LT ONE YR		AWARDS LT TWO YR		ASSOCIATE DEGREE		AWARDS LT FOUR YR		BACHELOR DEGREE		POST-BACC		MASTER DEGREE		POST MASTER		DOCTOR DEGREE		1ST PROF DEGREE	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
49 TRANSPORTN & MATRL MOVING					55	5														
50 VISUAL & PERFORMING ARTS		1		2	63	89	9	13	661	1165			115	155			9	12		

TABLE 3

COMPLETIONS BY MAJOR FIELD OF STUDY, LEVEL OF PROGRAM AND SEX

1987-88

STATE SUMMARY

CIP SHORT TITLE	AWARDS LT ONE YR MEN	AWARDS LT ONE YR WOMEN	AWARDS LT TWO YR MEN	AWARDS LT TWO YR WOMEN	ASSOCIATE DEGREE MEN	ASSOCIATE DEGREE WOMEN	AWARDS LT FOUR YR MEN	AWARDS LT FOUR YR WOMEN	BACHELOR DEGREE MEN	BACHELOR DEGREE WOMEN	POST-BACC MEN	POST-BACC WOMEN	MASTER DEGREE MEN	MASTER DEGREE WOMEN	POST MASTER MEN	POST MASTER WOMEN	DOCTOR DEGREE MEN	DOCTOR DEGREE WOMEN	1ST PROF DEGREE MEN	1ST PROF DEGREE WOMEN
STATE TOTAL	2493	1652	355	757	4867	7851	409	111	27864	30459	3508	655	6972	6827	53	55	1211	675	2463	1258

APPENDIX A

GLOSSARY

ASSOCIATE DEGREE--A degree based on at least two but less than four years of full-time college work.

BACHELOR'S DEGREE--A degree requiring four or five years of full-time college work.

DOCTOR'S DEGREE--A degree normally based on at least three years of graduate work beyond the bachelor's degree, usually granted as a Ph.D. in any field or, Doctor of Education, Doctor of Juridical Science, Doctor of Public Health, etc.

FIRST-PROFESSIONAL DEGREE--A degree based on at least six years of college work, usually granted in Dentistry, Law, Medicine, Theology, etc. It signifies completion of the academic requirements to begin practice in the profession.

MASTER'S DEGREE--A degree customarily based on at least one but not more than two full-time academic years of work beyond the bachelor's degree.

MINORITY--For this publication, a person identified as belonging to any of the following classifications: Black, Non-Hispanic; American Indian or Alaskan Native; Asian or Pacific Islander; or Hispanic.

POSTBACCALAUREATE CERTIFICATE--An award that requires completion of an organized program of study requiring 30 credit hours beyond the bachelor's; designed for persons who have completed a baccalaureate degree, but do not meet the requirements of academic degrees carrying the title of master.

POST-MASTER'S CERTIFICATE--An award that requires completion of an organized program of study of 60 credit hours beyond the master's degree, but does not meet the requirements of academic degrees at the doctor's level.

POSTSECONDARY AWARDS, CERTIFICATES OR DIPLOMAS (less than 1 academic year)--Requires completion of an organized program of study at the postsecondary level in less than 1 academic year (2 semesters or 3 quarters) or in less than 900 contact hours by a student enrolled full-time.

POSTSECONDARY AWARDS, CERTIFICATES OR DIPLOMAS (at least one but less than two academic years)--Requires completion of an organized program of study at the postsecondary level in at least one but less than two full-time-equivalent academic years; or designed for completion in at least 30 but less than 60 credit hours, or in at least 900 but less than 1,800 contact hours.

GLOSSARY (Concluded)

POSTSECONDARY AWARDS, CERTIFICATES OR DIPLOMAS (at least two but less than four academic years)--Requires completion of an organized program of study at the postsecondary level in at least two but less than four full-time-equivalent academic years; or designed for completion in at least 60 but less than 120 credit hours, or in at least 1,800 but less than 3,600 contact hours.

PROGRAM--A combination of courses and related activities organized for the attainment of broad educational objectives described by the institution.

RACIAL/ETHNIC CATEGORIES:

AMERICAN INDIAN OR ALASKAN NATIVE--A person having origins in any of the original peoples of North America and who maintains cultural identification through tribal affiliation or community recognition.

ASIAN OR PACIFIC ISLANDER--A person having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands. The areas include for example, China, Japan, Korea, India, the Philippine Islands, and Samoa.

BLACK (NON-HISPANIC)--A person having origins in any of the black racial groups of Africa.

HISPANIC--A person of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race.

NON-RESIDENT ALIEN--A person who is not a citizen or national of the United States and who is in this country on a temporary basis and does not have the right to remain indefinitely.

WHITE (NON-HISPANIC)--A person having origins in any of the original peoples of Europe, North Africa, or the Middle East.

APPENDIX B

SOURCES

1. Completions (ED G50-14P-C)
2. *Digest of Education Statistics, 1988*, U.S. Department of Education, Office of Educational Research and Improvement
3. *Higher Education Fall Enrollments, 1986*, Pennsylvania Department of Education, Division of Data Services

S47R-2.1-2

Vocational Education

Program Statistics
1987-88

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Data Series

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Compiled by: Marcia A. McCormick, Descriptive Statistician

April 1989

Pennsylvania Department of Education
333 Market Street
Harrisburg, PA 17126-0333

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HIGHLIGHTS

* A total of 284,744 students were enrolled in Pennsylvania's vocational education programs; 244,940 or 86.0 percent were in occupational programs.

* Secondary and adult vocational program enrollments included 16,138 handicapped and 50,320 disadvantaged students (including 1,697 limited English proficient students).

* Enrollments totaled 15,121 in Job Training Partnership Act (JTPA) programs administered by the Pennsylvania Department of Education.

* Of those responding to the vocational education follow-up survey of 1986-87 completers, 90.4 percent of the secondary and 84.2 percent of the adult respondents were gainfully placed (employed, military service, and pursuing additional education).

* Support for vocational education included $444,835,651 or 91.5 percent from state and local funds, and $41,193,884 or 8.5 percent from federal funds.

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OVERVIEW

Pennsylvania's total vocational education program enrollments for 1987-88 were 284,744. These included 151,107 at the secondary level; 56,570 at the postsecondary level; and 77,067 at the adult level.

The majority of vocational program enrollments were in trade and industrial education (36.7 percent) and business education (28.7 percent), followed by consumer and homemaking education (13.8 percent), health occupations education (5.9 percent), agriculture education (4.9 percent), occupational home economics education (4.1 percent), marketing and distributive education (3.4 percent), not elsewhere classified (2.3 percent), and industrial arts education (0.2 percent).

In 1984, *The Unfinished Agenda* reported that "sex-linked enrollment patterns" in vocational education found men and women still in traditional gender related areas of study. [1] In 1987-88, the vocational enrollment picture in Pennsylvania continued to be aligned according to the traditional male/female roles. A total of 62.0 percent of all the women enrolled in secondary, postsecondary, and adult vocational programs were in business education and consumer and homemaking education, while 61.3 percent of all the men were in trade and industrial education.

A follow-up survey of students who completed secondary and adult vocational programs in 1986-87 was conducted in the summer of 1988. Of those responding, 60.1 percent of the secondary and 78.6 percent of the adult program completers were employed. The majority of these respondents (60.4 percent at the secondary level and 67.5 percent at the adult level) were employed in jobs related to their vocational field of study.

Support for vocational education in Pennsylvania increased $183,355,088 or 60.6 percent between 1978-79 and 1987-88. In this ten-year period the state and local support increased $173,281,335 or 63.8 percent, while federal support increased $10,073,753 or 32.4 percent.

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[1] *The Unfinished Agenda: The Role of Vocational Education in the High School*, National Commission on Secondary Education, 1984

TABLE 1

VOCATIONAL EDUCATION SECONDARY PROGRAM ENROLLMENTS
1978-79 THROUGH 1987-88

	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88
SECONDARY TOTAL	261 362	258 913	251 869	242 920	233 242	216 910	197 996	181 486	168 535	151 107
Agriculture Education	15 637	14 723	13 825	13 435	12 728	11 718	11 122	10 267	9 443	8 445
Business Education	64 811	63 261	61 110	59 695	61 146	56 198	50 322	45 108	39 966	35 640
Health Occupations Education	5 317	5 070	5 151	4 912	4 866	5 168	5 081	4 557	4 210	3 593
Marketing and Distributive Education	10 853	10 424	9 694	9 120	8 856	7 684	7 071	6 263	5 809	5 202
Occupational Home Economics Education	7 538	7 043	7 637	7 342	10 032	9 845	9 002	8 419	7 502	6 613
Technical Education	10 290	9 592	9 708	9 184	8 827	8 539	7 766	7 477	-	-
Trade and Industrial Education	76 540	77 462	76 718	73 569	59 859	55 972	51 803	47 371	50 822	48 330
Not Elsewhere Classified	1 833	6 827	4 986	5 090	12 200	11 088	10 983	5 686	5 476	5 245
Consumer and Homemaking Education	68 543	64 511	63 020	60 573	54 728	50 698	44 846	46 338	45 307	37 439
Industrial Arts Education	-	-	-	-	-	-	-	-	-	600

NOTE: 1. As a result of a new program coding system implemented in 1982-83, several programs that were in trade and industrial education prior to 1982-83 are now in occupational home economics education or not elsewhere classified.

2. As of 1986-87, the technical education program field is included in the trade and industrial education program field.

3. In 1987-88, the Pennsylvania Department of Education began approving programs in industrial arts education.

TABLE 2

VOCATIONAL EDUCATION ADULT PROGRAM ENROLLMENTS
1978-79 THROUGH 1987-88

	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88
ADULT TOTAL	135 852	94 359	82 577	82 139	81 818	73 936	72 963	80 381	81 333	77 067
Agriculture Education	5 218	5 005	5 327	5 429	5 508	4 758	4 841	4 619	5 035	5 033
Business Education	20 325	15 137	15 306	16 149	21 067	22 157	18 771	26 096	24 330	19 970
Health Occupations Education	15 713	7 488	9 032	9 592	9 056	7 413	5 512	6 643	5 303	4 755
Marketing and Distributive Education	1 790	644	972	1 198	1 467	426	950	880	929	535
Occupational Home Economics Education	2 182	1 178	1 059	876	2 266	2 902	3 165	2 839	3 061	3 064
Technical Education	6 634	3 531	4 798	5 821	5 686	3 721	3 847	4 217	-	-
Trade and Industrial Education	78 971	57 324	41 228	39 514	33 908	29 902	33 326	32 962	40 799	41 527
Not Elsewhere Classified	-	-	1 479	1 080	368	323	369	423	366	418
Consumer and Homemaking Education	5 019	4 052	3 376	2 480	2 492	2 334	2 182	1 702	1 510	1 765

NOTE: 1. As a result of a new program coding system implemented in 1982-83, several programs that were in trade and industrial education prior to 1982-83 are now in occupational home economics education or not elsewhere classified.

2. As of 1986-87, the technical education program field is included in the trade and industrial education program field.

FIGURE 1
VOCATIONAL EDUCATION
SECONDARY AND ADULT PROGRAM ENROLLMENTS
1978-79 THROUGH 1987-88

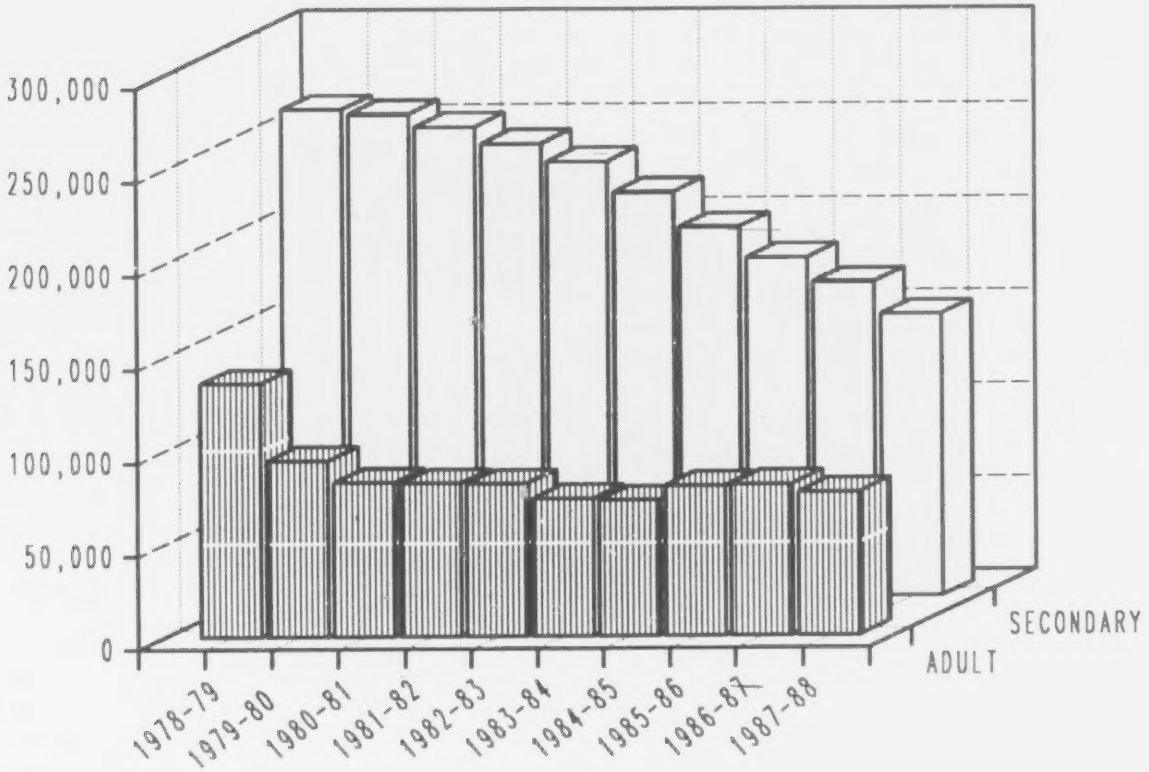


TABLE 3

VOCATIONAL EDUCATION PROGRAM ENROLLMENTS BY RACE

1987-88

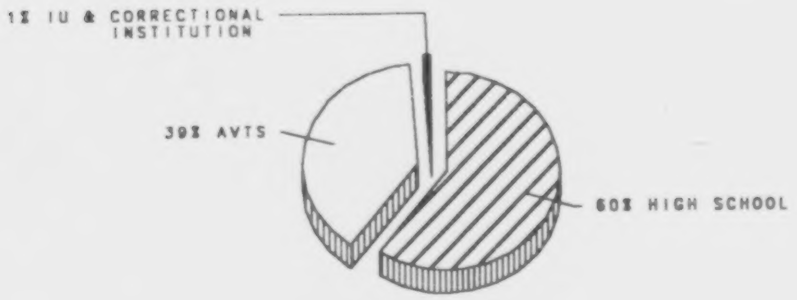
	Total	American Indian/ Alaskan Native	Asian/ Pacific Islander	Black (Non-Hispanic)	Hispanic	White (Non-Hispanic)	Nonresident Alien
TOTAL	284 744	312	1 779	34 027	4 433	244 059	134
SECONDARY	151 107	136	583	22 502	3 192	124 694	-
Agriculture Education	8 445	4	9	393	35	8 004	-
Business Education	35 640	18	117	5 671	701	29 133	-
Health Occupations Education	3 593	6	17	609	83	2 878	-
Marketing and Distributive Education	5 202	2	17	1 052	114	4 017	-
Occupational Home Economics Education	6 613	9	25	1 833	200	4 546	-
Trade and Industrial Education	48 330	70	199	6 802	1 261	39 998	-
Not Elsewhere Classified	5 245	6	24	539	294	4 382	-
Consumer and Homemaking Education	37 439	20	171	5 568	504	31 176	-
Industrial Arts Education	600	1	4	35	0	560	-
POSTSECONDARY	56 570	93	685	5 219	572	49 867	134
Agriculture Education	621	0	1	6	2	606	6
Business Education	26 252	47	309	2 845	320	22 678	53
Health Occupations Education	8 331	13	86	686	76	7 455	15
Marketing and Distributive Education	4 075	15	37	453	47	3 506	17
Occupational Home Economics Education	1 960	2	16	249	23	1 665	5
Trade and Industrial Education	14 539	16	232	896	99	13 259	37
Not Elsewhere Classified	792	0	4	84	5	698	1
ADULT	77 067	83	511	6 306	669	69 498	-
Agriculture Education	5 033	0	12	22	6	4 993	-
Business Education	19 970	31	128	2 839	217	16 755	-
Health Occupations Education	4 755	9	31	459	33	4 223	-
Marketing and Distributive Education	535	0	2	2	1	530	-
Occupational Home Economics Education	3 064	1	25	557	70	2 411	-
Trade and Industrial Education	41 527	40	223	2 321	306	38 637	-
Not Elsewhere Classified	418	1	69	42	32	274	-
Consumer and Homemaking Education	1 765	1	21	64	4	1 675	-

NOTE: A dash (-) indicates "not applicable."

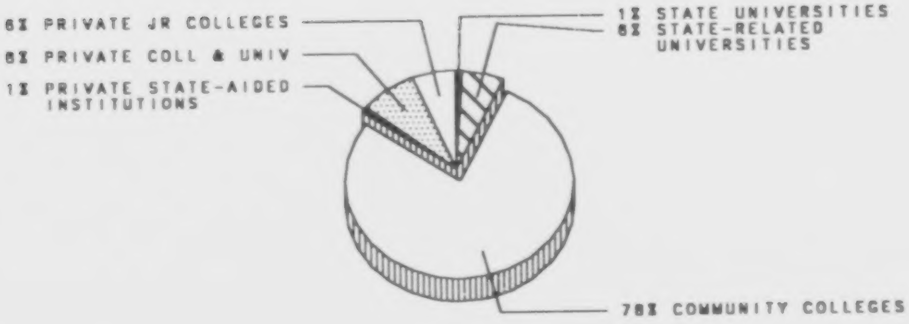
The percentage breakdown of vocational education enrollments by race is: 85.71 White (Non-Hispanic); 11.95 Black (Non-Hispanic); 1.56 Hispanic; 0.62 Asian/Pacific Islander; 0.11 American Indian/Alaskan Native, and 0.05 nonresident alien.

Minorities (excludes nonresident aliens) account for 14.24 percent of vocational education enrollments. The percent of minority enrollments by program vary considerably: 3.48 agriculture education; 16.18 business education; 12.64 health occupations education; 17.75 marketing and distributive education; 25.87 occupational home economics education; 11.94 trade and industrial education; 17.04 not elsewhere classified; 16.20 consumer and homemaking education; and 6.67 industrial arts education.

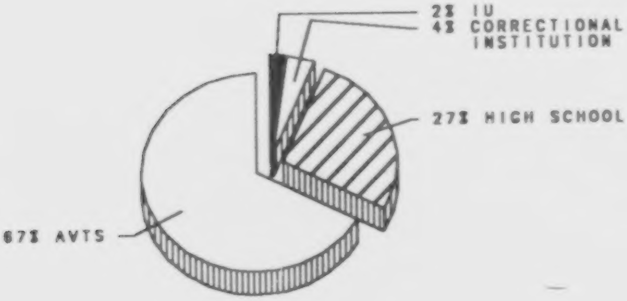
FIGURE 2
VOCATIONAL EDUCATION PROGRAM ENROLLMENTS BY TYPE OF INSTITUTION
1987-88



SECONDARY



POSTSECONDARY



ADULT

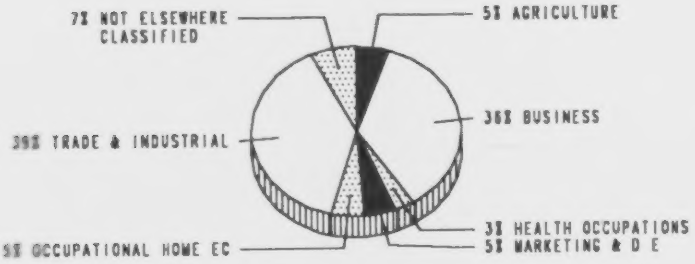
TABLE 4

VOCATIONAL EDUCATION PROGRAM ENROLLMENTS BY SEX
1987-88

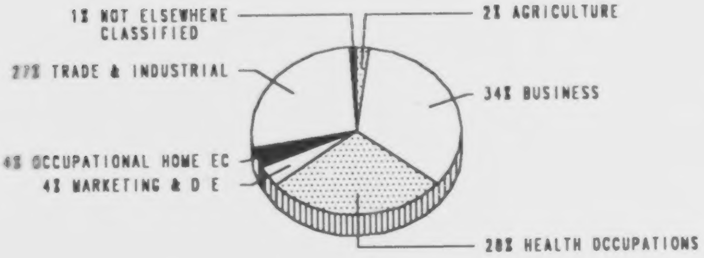
	Total	Male	Female
TOTAL	284 744	136 938	147 806
SECONDARY	151 107	69 154	81 953
Agriculture Education	8 445	6 433	2 012
Business Education	35 640	7 333	28 307
Health Occupations Education	3 593	169	3 424
Marketing and Distributive Education	5 202	1 873	3 329
Occupational Home Economics Education	6 613	2 144	4 469
Trade and Industrial Education	48 330	38 069	10 261
Not Elsewhere Classified	5 245	3 051	2 194
Consumer and Homemaking Education	37 439	9 605	27 834
Industrial Arts Education	600	477	123
POSTSECONDARY	56 570	22 780	33 790
Agriculture Education	621	403	218
Business Education	26 252	7 998	18 254
Health Occupations Education	8 331	1 091	7 240
Marketing and Distributive Education	4 075	1 612	2 463
Occupational Home Economics Education	1 960	423	1 537
Trade and Industrial Education	14 539	11 115	3 424
Not Elsewhere Classified	792	138	654
ADULT	77 067	45 004	32 063
Agriculture Education	5 033	4 056	977
Business Education	19 970	4 250	15 720
Health Occupations Education	4 755	772	3 983
Marketing and Distributive Education	535	258	277
Occupational Home Economics Education	3 064	555	2 509
Trade and Industrial Education	41 527	34 693	6 834
Not Elsewhere Classified	418	180	238
Consumer and Homemaking Education	1 765	240	1 525

Females account for 51.9 percent of the total vocational education enrollment and 48.3 percent of the occupational enrollment. Although sex equity efforts have contributed to an increase in females and males in nontraditional areas, the overall enrollment picture is still aligned according to the traditional male/female roles.

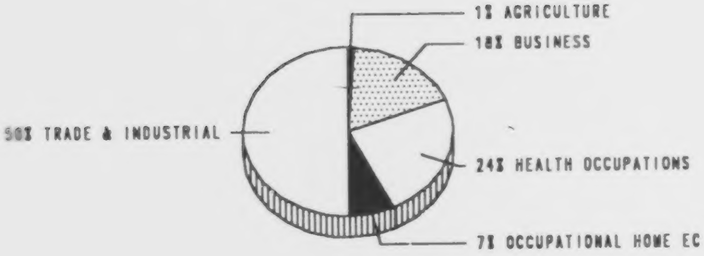
FIGURE 3
OCCUPATIONAL EDUCATION PROGRAM COMPLETERS
1987-88



SECONDARY



POSTSECONDARY



ADULT

Marketing and distributive education is not shown because it represents less than one percent of the total.

TABLE 5

VOCATIONAL EDUCATION SPECIAL NEEDS ENROLLMENTS
1987-88

	Total			Secondary			Adult		
	Handicapped	Disadvantaged	LEP	Handicapped	Disadvantaged	LEP	Handicapped	Disadvantaged	LEP
TOTAL	16 138	50 320	1 697	15 755	45 926	1 500	383	4 394	197
Agriculture Education	1 068	2 715	22	1 041	2 682	20	27	33	2
Business Education	829	11 576	428	771	9 991	424	58	1 585	4
Health Occupations Education	458	2 113	30	431	1 354	28	27	759	2
Marketing & Distributive Education	488	1 885	48	487	1 865	48	1	20	0
Occupational Home Economics Education	1 801	2 888	100	1 783	2 594	89	18	294	11
Trade & Industrial Education	7 468	18 211	637	7 305	16 744	603	163	1 467	34
Not Elsewhere Classified	1 606	1 825	227	1 602	1 649	86	4	176	141
Consumer & Homemaking Education	2 381	8 902	202	2 296	8 842	199	85	60	3
Industial Arts Education	39	205	3	39	205	3	-	-	-

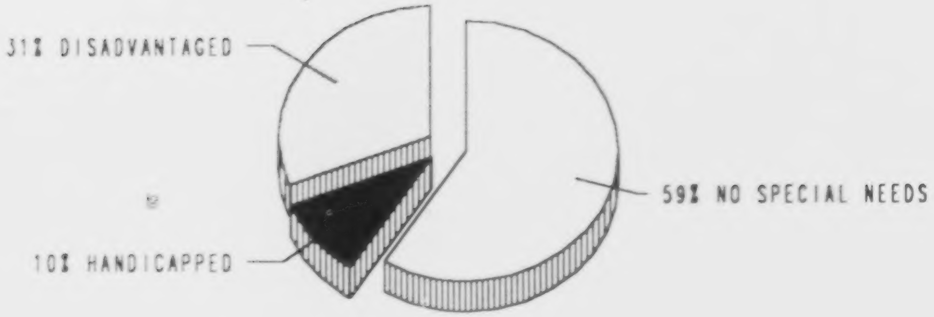
NOTE: 1. Students in state correctional institutions (1,214 secondary and 2,840 adult) are not included in this data.

2. Disadvantaged enrollments include limited English proficiency enrollments.

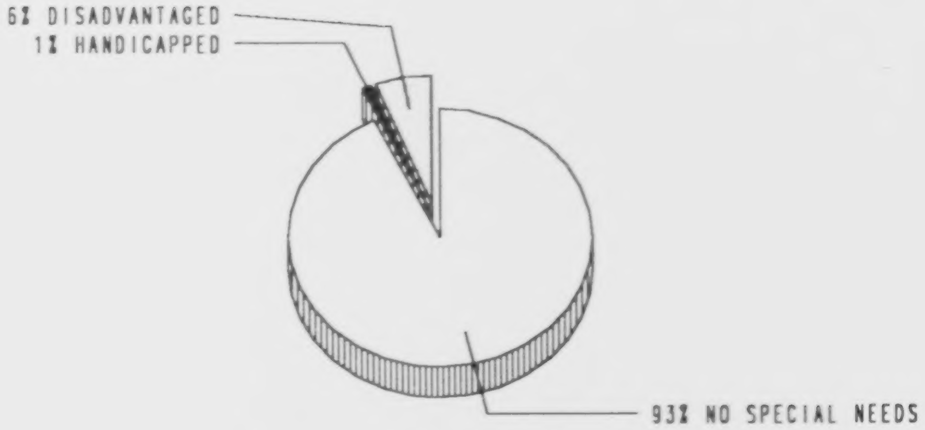
3. A dash (-) indicates "not applicable."

Special needs students may be enrolled in a separate vocational education program or in a mainstream program with regular students. In 1987-88, 82.2 percent of the handicapped, 94.3 percent of the disadvantaged, and 81.9 percent of the limited English proficient students were in a mainstream program.

FIGURE 4
VOCATIONAL EDUCATION SPECIAL NEEDS ENROLLMENTS
1987-88



SECONDARY



ADULT

NOTE: 1. Students in state correctional institutions (1,214 secondary and 2,840 adult) are not included in this data.

2. Disadvantaged enrollments include limited English proficiency enrollments.

TABLE 6

JOB TRAINING PARTNERSHIP ACT (JTPA)
STATE EDUCATION GRANT ENROLLMENTS AND COMPLETERS
1987-88

	Enrollments	Completers
TOTAL	15 121	10 641
AGRICULTURE EDUCATION	27	22
Horticulture	27	22
BUSINESS EDUCATION	501	298
Accounting, bookkeeping, and related programs	86	46
Business data processing and related programs	13	9
Business data programming	8	3
Computer and console operation	41	18
Data entry operation	78	58
General office and related programs	39	18
Secretarial and related programs	56	40
Secretarial, executive	7	0
Secretarial, legal	2	2
Secretarial, medical	45	21
Stenographic	11	7
Word processing	85	60
Other business education	30	16
HEALTH OCCUPATIONS EDUCATION	1 163	670
Dental services	61	36
Diagnostic and treatment services	39	22
Medical assisting	34	22
Medical laboratory technology	35	14
Mental health/human services	55	49
Nursing	250	145
Nursing-related services	168	119
Occupational therapy assisting	9	4
Practical nursing	506	254
Other health occupations education	6	5
MARKETING AND DISTRIBUTIVE EDUCATION	13	8
Hotel/motel management	3	3
Other marketing and distributive education	10	5

TABLE 6

JOB TRAINING PARTNERSHIP ACT (JTPA)
STATE EDUCATION GRANT ENROLLMENTS AND COMPLETERS--Concluded
1987-88

	Enrollments	Completers
OCCUPATIONAL HOME ECONOMICS EDUCATION	207	164
Child care services	20	18
Food production, management, and services	163	131
Other occupational home economics education	24	15
TRADE AND INDUSTRIAL EDUCATION	491	319
Air conditioning, heating and refrigeration technology	7	4
Building and property maintenance	10	4
Carpentry	13	10
Computer and information sciences	42	27
Cosmetology	23	18
Data processing	15	13
Drafting and design technology	11	7
Drafting occupations	34	19
Electrical and electronic technology	63	29
Electrical and electronics equipment repair	25	23
Electrical and power transmission installation	9	9
Electromechanical instrumentation & maintenance technology	24	12
Graphic and printing communications	24	10
Heating, air conditioning, and refrigeration mechanics	19	12
Machine shop	33	21
Meatcutting	2	2
Millwork and cabinet making	3	2
Security services	13	11
Vehicle and mobile equipment mechanics and repair	76	52
Welding	11	9
Other trade and industrial education	34	25
NOT ELSEWHERE CLASSIFIED	12 719	9 160
Adult basic education	4 559	2 978
English as a second language	469	402
General educational development	6 145	4 463
Other not elsewhere classified	1 546	1 317

Source: Pennsylvania Department of Labor and Industry

TABLE 7

FOLLOW-UP OF COMPLETERS OF APPROVED VOCATIONAL EDUCATION SECONDARY PROGRAMS
1986-87

	Completers	Percent of Respondents						
		Gainfully Placed					Unemployed	
		Employed Related to Training	Employed Not Related to Training	Military Service	Pursuing Additional Education	Total	Unemployed Looking	Unemployed Not Looking
SECONDARY TOTAL	40 249	36.3	23.8	6.7	23.7	90.4	6.4	3.2
Male	18 572	34.2	26.0	13.4	19.7	93.3	5.6	1.1
Female	21 677	37.9	22.0	1.4	26.8	88.1	7.0	4.9
Agriculture Education	2 000	29.4	33.3	11.4	17.7	91.8	4.7	3.6
Male	1 469	31.1	32.0	15.4	15.9	94.4	3.8	1.9
Female	531	25.2	36.5	1.3	22.2	85.2	7.0	7.8
Business Education	15 268	33.7	19.1	3.4	34.5	90.8	6.0	3.2
Male	2 795	12.1	20.2	15.1	45.7	93.1	5.9	1.0
Female	12 473	37.5	19.0	1.4	32.5	90.4	6.0	3.6
Health Occupations Education	1 555	38.5	18.1	1.2	28.1	85.8	7.9	6.3
Male	75	26.1	8.7	8.7	43.5	87.0	13.0	0.0
Female	1 480	38.9	18.5	0.9	27.5	85.8	7.7	6.5
Marketing and Distributive Education	2 267	33.7	25.6	5.9	21.5	86.7	9.3	4.1
Male	760	26.3	24.1	15.6	26.8	92.9	6.3	0.9
Female	1 507	36.5	26.1	2.2	19.5	84.3	10.4	5.3
Occupational Home Economics Education	1 902	36.8	25.0	4.9	14.6	81.2	12.4	6.3
Male	621	40.9	19.5	12.6	13.5	86.5	10.7	2.8
Female	1 281	34.9	27.4	1.5	15.1	78.9	13.2	7.9
Trade and Industrial Education	14 797	38.3	27.6	10.0	15.6	91.5	6.1	2.4
Male	11 565	38.1	27.1	12.6	15.6	93.5	5.6	1.0
Female	3 232	38.6	29.1	1.5	15.7	84.9	8.0	7.1
Not Elsewhere Classified	2 460	47.5	22.7	7.7	14.4	92.4	4.0	3.6
Male	1 287	43.4	23.4	15.2	11.8	93.7	4.6	1.7
Female	1 173	51.4	22.1	0.7	16.9	91.1	3.4	5.5

NOTE: 1. Due to rounding factors, percentages will not always add to 100.0 percent.

2. A student is counted in only one of the employment status categories. A student who is "pursuing additional education" and either "employed not related to training," "unemployed looking," or "unemployed not looking" is counted as "pursuing additional education." A student who is "pursuing additional education" and "employed related to training" is counted as "employed related to training"; a student who is "pursuing additional education" and "military service" is counted as "military service."

The student follow-up of secondary vocational education completers from the 1986-87 school year was conducted during the summer of 1988. The total response rate was 40.0 percent. Of the male completers, 38.1 percent responded, while 41.6 percent of the female completers responded.

TABLE 8

FOLLOW-UP OF COMPLETERS OF VOCATIONAL EDUCATION ADULT PROGRAMS
1986-87

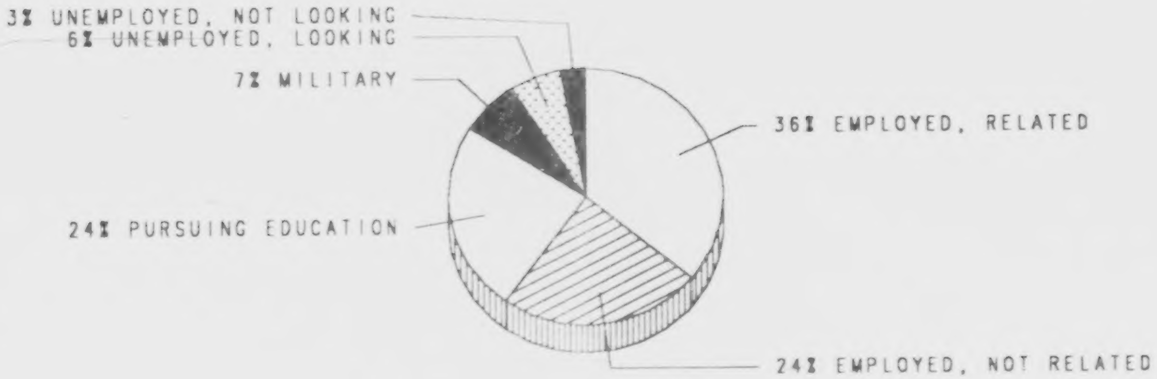
		Percent of Respondents						
		Gainfully Placed					Unemployed	
	Completers	Employed Related to Training	Employed Not Related to Training	Military Service	Pursuing Additional Education	Total	Unemployed Looking	Unemployed Not Looking
ADULT TOTAL	5 908	53.1	25.5	0.5	5.1	84.2	7.7	8.1
Male	2 521	44.4	34.9	1.1	6.3	86.6	7.3	6.1
Female	3 387	58.5	19.7	0.1	4.4	82.7	8.0	9.3
Agriculture Education	33	38.5	38.5	0.0	0.0	76.9	7.7	15.4
Male	27	50.0	40.0	0.0	0.0	90.0	10.0	0.0
Female	6	0.0	33.3	0.0	0.0	33.3	0.0	66.7
Business Education	1 182	42.7	31.4	0.3	5.5	79.9	9.5	10.6
Male	114	41.4	32.8	3.4	5.2	82.8	13.8	3.4
Female	1 068	42.8	31.3	0.0	5.5	79.6	9.1	11.4
Health Occupations Education	1 750	77.9	8.6	0.3	2.7	89.5	4.2	6.3
Male	143	68.4	18.4	3.9	2.6	93.4	3.9	2.6
Female	1 607	78.7	7.8	0.0	2.7	89.2	4.2	6.6
Marketing and Distributive Education	65	10.0	65.0	0.0	10.0	85.0	0.0	15.0
Male	21	11.1	66.7	0.0	0.0	77.8	0.0	22.2
Female	44	9.1	63.6	0.0	18.2	90.9	0.0	9.1
Occupational Home Economics Education	315	26.9	25.8	1.1	5.4	59.1	25.8	15.1
Male	97	42.3	34.6	0.0	3.8	80.8	11.5	7.7
Female	218	20.9	22.4	1.5	6.0	50.7	31.3	17.9
Trade and Industrial Education	2 563	40.0	36.5	0.6	7.0	84.1	8.4	7.5
Male	2 119	42.9	36.0	0.8	6.8	86.5	7.1	6.4
Female	444	27.2	38.3	0.0	7.8	73.3	14.6	12.1

NOTE: 1. Due to rounding factors, percentages will not always add to 100.0 percent.

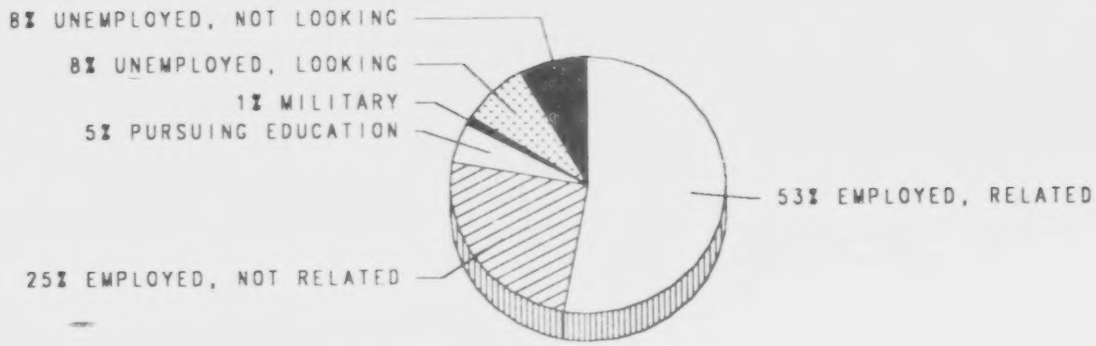
2. A student is counted in only one of the employment status categories. A student who is "pursuing additional education" and either "employed not related to training," "unemployed looking," or "unemployed not looking" is counted as "pursuing additional education." A student who is "pursuing additional education" and "employed related to training" is counted as "employed related to training"; a student who is "pursuing additional education" and "military service" is counted as "military service."

The student follow-up of adult vocational education completers from the 1986-87 school year was conducted during the summer of 1988. The total response rate was 48.6 percent. Of the male completers, 43.6 percent responded, while 52.3 percent of the female completers respondec

FIGURE 5
FOLLOW-UP OF COMPLETERS
OF VOCATIONAL EDUCATION PROGRAMS
1986-87



SECONDARY



ADULT

TABLE 9

AVERAGE SALARY OF COMPLETERS OF VOCATIONAL EDUCATION PROGRAMS
1986-87

	Average Hourly Salary		
	Total	Male	Female
SECONDARY	$ 5.75	$ 6.34	$ 5.23
Agriculture Education	5.16	5.36	4.65
Business Education	5.48	5.66	5.47
Health Occupations Education	4.97	4.85 1/	4.98
Marketing and Distributive Education	4.93	5.41	4.76
Occupational Home Economics Education	4.68	5.15	4.41
Trade and Industrial Education	6.21	6.50	4.72
Not Elsewhere Classified	5.93	6.71	5.22
ADULT	7.80	9.16	7.04
Agriculture Education	9.13 1/	9.13	.00
Business Education	6.52	8.39 1/	6.31
Health Occupations Education	7.29	7.70	7.26
Occupational Home Economics Education	4.77 1/	4.73	4.80
Trade and Industrial Education	9.37	9.51	8.18

1/ Less than 30 respondents.

NOTE: The average hourly salary was computed from salaries reported by student follow-up respondents employed 35 or more hours per week in a field related to their training.

TABLE 10

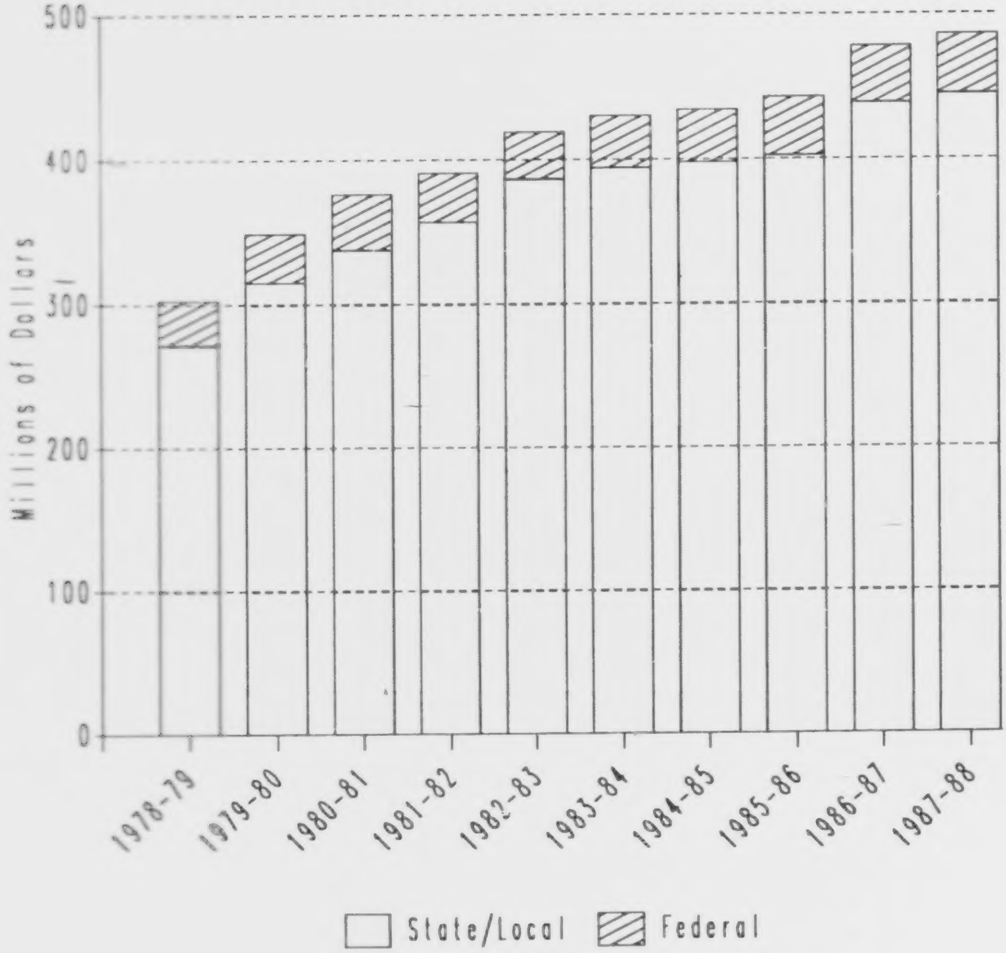
SUPPORT FOR VOCATIONAL EDUCATION
1978-79 THROUGH 1987-88

(In Thousands)

Fiscal Year	Total	State/Local	Federal
1978-79	$ 302 674	$ 271 554	$ 31 120
1979-80	348 843	315 015	33 828
1980-81	376 390	337 797	38 593
1981-82	390 666	356 841	33 825
1982-83	419 119	386 963	32 156
1983-84	430 145	394 227	35 918
1984-85	434 240	398 187	36 053
1985-86	442 884	402 741	40 143
1986-87	477 726	438 974	38 752
1987-88	486 030	444 836	41 194

Source: Bureau of Basic Education Fiscal Administration

FIGURE 6
SUPPORT FOR VOCATIONAL EDUCATION
1978-79 THROUGH 1987-88



Source: Bureau of Basic Education Fiscal Administration

TABLE 11

TEACHERS OF APPROVED VOCATIONAL EDUCATION SECONDARY PROGRAMS
1983-84 THROUGH 1987-88

	1983-84	1984-85	1985-86	1986-87	1987-88
TOTAL	6 510	6 380	6 142	5 908	5 554
Agriculture Education	320	319	311	302	289
Business Education	2 603	2 541	2 466	2 390	2 295
Health Occupations Education	151	161	150	150	142
Marketing and Distributive Education	189	185	167	156	154
Occupational Home Economics Education	253	244	235	219	211
Technical Education	242	250	243	-	-
Trade and Industrial Education	1 537	1 507	1 438	1 623	1 567
Not Elsewhere Classified	176	167	145	136	108
Consumer and Homemaking Education	1 039	1 006	987	932	769
Industrial Arts Education	-	-	-	-	19

NOTE: 1. As of 1986-87, the technical education program field is included in the trade and industrial education program field.

2. In 1987-88, the Pennsylvania Department of Education began approving programs in industrial arts education.

3. A dash (-) indicates "not applicable."

FIGURE 7

TEACHERS OF APPROVED VOCATIONAL EDUCATION SECONDARY PROGRAMS BY AGE
1987-88

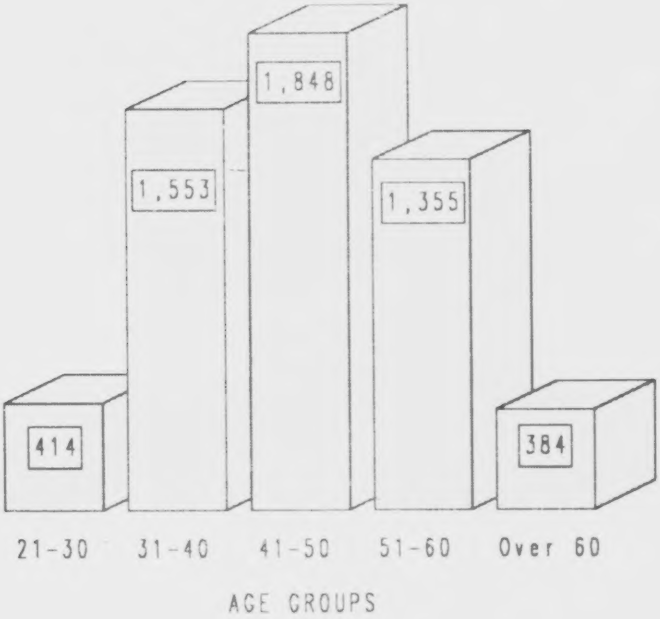


TABLE 12

EDUCATION LEVEL AND WEIGHTED AVERAGE HOURLY SALARY FOR TEACHERS OF VOCATIONAL EDUCATION ADULT PROGRAMS 1987-88

	Total	Education Level						Weighted Average Hourly Salary 1/
		High School or Less	College 1 to 2 Years	College 3 Years	Bachelor's Degree	Master's Degree	Doctorate	
TOTAL	2 579	427	597	147	870	521	17	$ 15.70
Agriculture Education	120	9	9	3	58	38	3	14.57
Business Education	612	40	74	12	294	184	8	16.64
Health Occupations Education	340	29	75	30	147	57	2	15.69
Marketing and Distributive Education	20	0	2	0	13	5	0	18.23
Occupational Home Economics Education	101	35	27	4	25	10	0	15.07
Trade and Industrial Education	1 310	302	402	96	296	211	3	15.72
Not Elsewhere Classified	10	2	0	0	4	4	0	11.31
Consumer and Homemaking Education	66	10	8	2	33	12	1	13.19

1/ Total annual salaries divided by total teaching hours.

APPENDIX A

GLOSSARY

ADULT PROGRAM - A vocational education program offered in public secondary schools, intermediate units, and state correctional institutions to students who have completed or left high school.

APPROVED PROGRAM - A program certified in writing by the Pennsylvania Department of Education as meeting the state regulations and standards for vocational education.

AREA VOCATIONAL-TECHNICAL SCHOOL (AVTS) - A specialized high school used principally for providing vocational education.

COMPLETER - A student who has completed a planned sequence of courses designed to meet a vocational occupational objective.

DISADVANTAGED - A student who is either academically or economically disadvantaged for reason other than handicapped. Includes those who are of limited English proficiency.

HANDICAPPED - A student evaluated as being brain damaged, deaf, hearing impaired, learning disabled, mentally retarded educable, mentally retarded trainable, mentally retarded severely/profoundly, physically handicapped, socially and emotionally handicapped, speech and language impaired, or visually impaired, who because of those impairments requires special education and related services.

JOB TRAINING PARTNERSHIP ACT (JTPA) (State Education Grant) - A federal/state education and training program administered by the Pennsylvania Department of Education, targeted to economically disadvantaged youths and adults fourteen years of age and older.

LIMITED ENGLISH PROFICIENCY - A student who is a member of a national-origin minority who does not speak and understand the English language in an instructional setting well enough to benefit from vocational studies to the same extent as a student whose primary language is English. These students are considered to be disadvantaged.

NOT ELSEWHERE CLASSIFIED - A single-skill or special vocational education program that cannot be classified under any of the other eight program fields.

OCCUPATIONAL PROGRAM - A vocational education program that prepares students for employment. Includes all vocational education reported except consumer and homemaking education and industrial arts education.

POSTSECONDARY PROGRAM - A subbaccalaureate program offered in colleges and universities that is specifically designed to provide occupational preparation.

RACIAL/ETHNIC CATEGORIES:

AMERICAN INDIAN/ALASKAN NATIVE - A person having origins in any of the original peoples of North America, and who maintains cultural identification through tribal affiliation or community recognition.

ASIAN/PACIFIC ISLANDER - A person having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands. The areas include, for example, China, Japan, Korea, India, the Philippine Islands, and Samoa.

BLACK (NON-HISPANIC) - A person having origins in any of the black racial groups of Africa.

HISPANIC - A person of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race.

NONRESIDENT ALIEN - A person who is not a citizen of the United States and who is in this county on a temporary basis and does not have the right to remain indefinitely.

WHITE (NON-HISPANIC) - A person having origins in any of the original peoples of Europe, North America, or the Middle East.

SECONDARY PROGRAM - A vocational education program offered in public secondary schools, intermediate units, and state correctional institutions to students in grades nine through twelve (including ungraded students in the same age group as those students in grades nine through twelve, and adults enrolled in secondary programs).

SPECIAL NEEDS ENROLLMENTS - Students reported as handicapped or disadvantaged, including those who are of limited English proficiency.

APPENDIX B

SOURCES

1. Vocational Secondary Students Aggregate Enrollment Report (PDE-4051)
2. Adults Enrolled in Approved Secondary Vocational Programs (PDE-4090)
3. Special Federally Funded Handicapped and Disadvantaged Vocational Students Aggregate Enrollment Report (PDE-4046-B)
4. Vocational Adult Students Aggregate Enrollment Report (PDE-4049)
5. Fall Enrollment in Occupationally Specific Programs (ED G50-14P-EP)
6. Enrollment and Termination Form for Customized Job Training, Health Occupations Education, or Training for Occupations with Promise (PDE-4023)
7. JTPA MIS Change and Termination Notice (JTPA 2)
8. Secondary Vocational Student Follow-up (PDE-4519)
9. Adult Vocational Student Follow-up (PDE-4520)
10. Vocational Education Professional Personnel (Secondary Level) (PDE-5023)
11. Basic Data for Personnel Servicing Vocational Education Programs (Adult Level) (PDE-5025)
12. Completions (ED G50-14P-C)
13. *The Unfinished Agenda: The Role of Vocational Education in the High School*, National Commission on Secondary Education, 1984

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Teachers Prepared
1987-88

This is one in a series of publications containing statistical summaries related to basic education, postsecondary education, and vocational education in Pennsylvania. For more detailed data, contact the Division of Data Services at (717) 787-2644.

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Bruce J. Cowling, Director

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Compiled by: Devki N. Khanna, Educational Statistics Associate

May 1989

Pennsylvania Department of Education
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HIGHLIGHTS

- During 1987-88, a total of 6,709 new teachers were prepared, consisting of 3,140 elementary, 1,818 secondary, 1,064 K-12, and 687 special education teachers.

- The 6,709 teachers represented a decline of 2.3 percent from the number prepared in 1986-87 and a decline of 65.5 percent from the peak year, 1971-72.

- The state universities produced 51.0 percent of the total teachers prepared during 1987-88. Private colleges and universities produced 32.0 percent; state-related commonwealth universities, 15.9 percent; and private state-aided, 1.1 percent.

- Of those responding to a follow-up survey, 65.2 percent were engaged in teaching and 14.6 percent were still seeking teaching positions as of November 1, 1988. Of those graduates placed in teaching positions, 73.1 percent were employed in Pennsylvania.

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OVERVIEW

After more than a decade of continuous decreases in the supply of teachers, the number of new teachers prepared with initial certification increased during 1986-87. However, the teachers prepared during 1987-88 decreased to 6,709, a decline of 2.3 percent from the preceding year.

The preparation of elementary teachers continued to show a strong growth, showing an increase of 19.9 percent in 1986-87 and 7.1 percent in 1987-88 over the respective preceding years. However, when compared to 1986-87, 1987-88 data showed 5.8 percent fewer secondary, 7.8 percent fewer K-12 and 19.2 percent fewer special education teachers prepared.

By institutional category, in 1987-88, new teachers consisted of 3,423 from state universities, 1,068 from state-related commonwealth universities, 75 from private state-aided institutions and 2,143 from private colleges and universities. This data, when compared to 1986-87, showed an increase of 4.7 percent for state universities, a decrease of 11.4 percent for state-related commonwealth universities, a decrease of 29.3 percent for private state-aided institutions and a decrease of 6.3 percent for private colleges and universities.

Of the six largest disciplines, elementary (general) showed an increase of 10.1 percent and social studies an increase of 24.3 percent when compared to 1986-87 graduates. The other four disciplines showed decreases. Mentally and physically handicapped declined 16.9 percent; health and physical education, 11.0 percent; early childhood, 7.5 percent; and mathematics, 6.7 percent.

A follow-up questionnaire regarding placement rate was returned by 61.3 percent of the new teachers prepared. Of those responding, placement by type of preparation showed that of all the teachers prepared within a specific category, special education placed 69.7 percent in teaching positions; elementary, 68.5 percent; secondary, 60.6 percent; and K-12, 59.6 percent. Within these four categories of preparation, 16.2 percent of the elementary teachers were still seeking teaching positions; secondary, 15.7 percent; K-12, 13.4 percent; and special education, 6.6 percent.

Although the most recent year showed a slight decline in the number of teachers prepared from the previous year, it is generally felt an upward trend will return in the near future. A random survey of the major teacher preparing institutions in Pennsylvania indicated a significant increase in enrollments in the field of education. Especially in the fields of mathematics and sciences where some of the most critical needs are reported to exist, Pennsylvania Higher Education Assistance Agency scholarships, together with improved salaries, should further help to bring more teachers into these fields.

TABLE 1

TEACHERS PREPARED BY TYPE
1978-79 THROUGH 1987-88

	Total	Elementary	Secondary	K-12	Special Education
1978-79	9 505	3 380	1 904	2 705	1 516
1979-80	8 444	2 996	1 602	2 379	1 467
1980-81	7 396	2 570	1 476	1 977	1 373
1981-82	7 172	2 446	1 385	1 761	1 580
1982-83	6 414	2 322	1 189	1 569	1 334
1983-84	5 987	2 263	1 270	1 360	1 094
1984-85	5 961	2 384	1 372	1 290	915
1985-86	5 946	2 446	1 530	1 146	824
1986-87	6 866	2 933	1 929	1 154	850
1987-88	6 709	3 140	1 818	1 064	687

TABLE 2

TEACHERS PREPARED BY INSTITUTIONAL CATEGORY
1978-79 THROUGH 1987-88

	Total	State Universities	State-Related Commonwealth Universities	Private State-Aided Institutions	Private Colleges and Universities
1978-79	9 505	5 151	1 965	101	2 288
1979-80	8 444	4 716	1 682	78	1 968
1980-81	7 396	4 173	1 393	57	1 773
1981-82	7 172	3 659	1 542	60	1 911
1982-83	6 414	3 419	1 224	51	1 720
1983-84	5 987	3 255	1 013	56	1 663
1984-85	5 961	3 178	1 030	65	1 686
1985-86	5 946	3 015	913	86	1 932
1986-87	6 866	3 268	1 205	106	2 287
1987-88	6 709	3 423	1 068	75	2 143

FIGURE 1

TEACHERS PREPARED
1978-79 THROUGH 1987-88

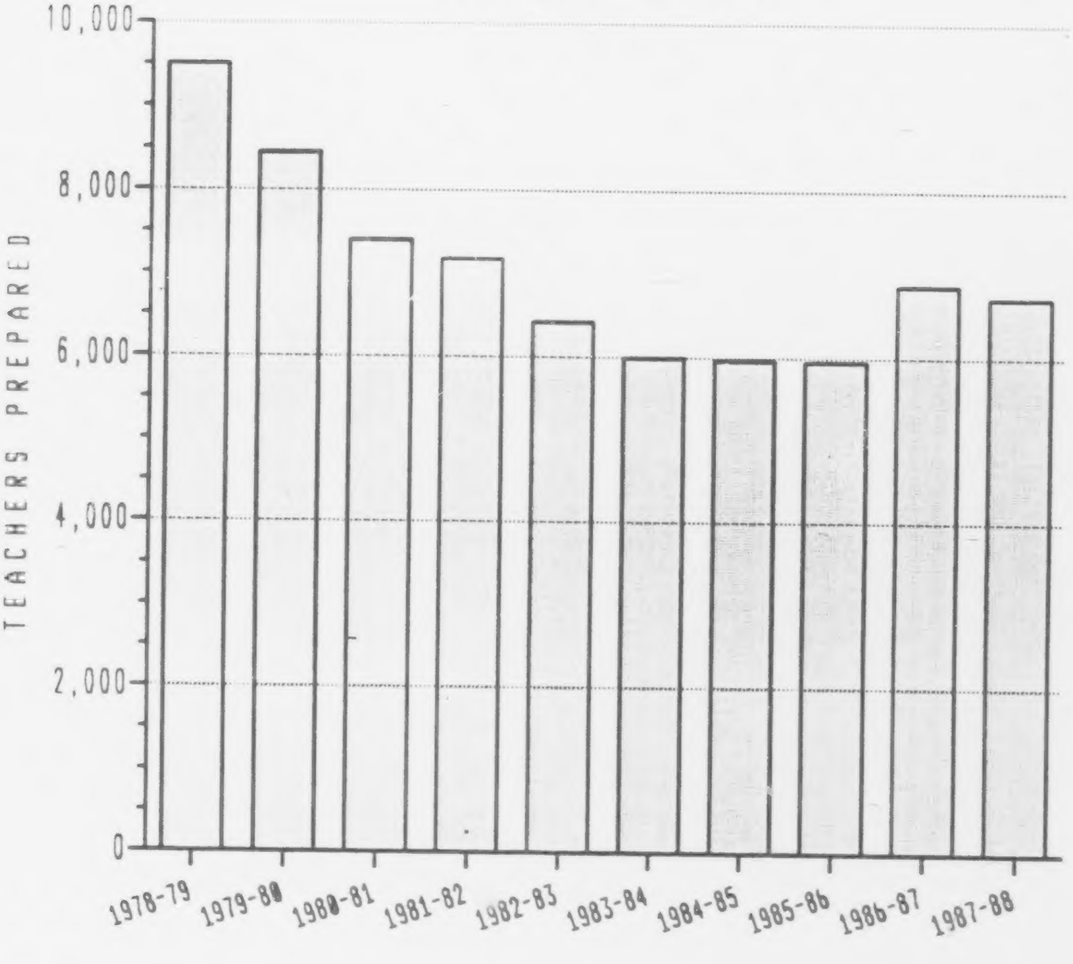

TABLE 3

EMPLOYMENT STATUS OF TEACHERS PREPARED 1978-79 THROUGH 1987-88

	Total	Teaching		Not Teaching		Unknown	
		Number	Percent	Number	Percent	Number	Percent
1978-79	9 505	4 021	42.3	2 658	28.0	2 826	29.7
1979-80	8 444	3 598	42.6	2 255	26.7	2 591	30.7
1980-81	7 396	3 003	40.6	2 073	28.0	2 320	31.4
1981-82	7 172	2 606	36.3	1 929	26.9	2 637	36.8
1982-83	6 414	2 447	38.2	1 774	27.7	2 193	34.2
1983-84	5 987	2 395	40.0	1 583	26.4	2 009	33.6
1984-85	5 961	2 530	42.4	1 286	21.6	2 145	36.0
1985-86	5 946	2 695	45.3	1 360	22.9	1 891	31.8
1986-87	6 866	2 771	40.4	1 368	19.9	2 727	39.7
1987-88	6 709	2 680	40.0	1 432	21.3	2 597	38.7

TABLE 4

TEACHERS PREPARED BY AREA OF CERTIFICATION
1978-79 THROUGH 1987-88

	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88
TOTAL	9 505	8 444	7 396	7 172	6 414	5 987	5 961	5 946	6 866	6 709
ELEMENTARY	3 380	2 996	2 579	2 446	2 322	2 263	2 384	2 446	2 933	3 140
Elementary, General	2 896	2 371	2 020	1 927	1 823	1 838	1 852	2 021	2 429	2 674
Early Childhood	484	625	550	519	499	425	532	425	504	466
SECONDARY	1 904	1 602	1 476	1 385	1 189	1 270	1 372	1 530	1 929	1 818
Business Education	281	189	208	168	167	131	148	154	177	113
Communications	125	105	104	81	86	58	61	65	49	63
English	317	264	242	209	194	223	212	264	312	287
Mathematics	198	178	158	162	146	211	287	338	462	431
Physics and Mathematics	7	7	10	20	2	7	3	11	9	23
Sciences, Total	286	235	248	211	179	255	302	340	441	430
Biology	160	127	146	115	111	133	168	187	214	206
Chemistry	33	26	25	34	22	45	49	64	93	76
Earth and Space	29	30	34	32	17	34	28	27	30	56
General	50	40	30	27	26	31	38	29	75	59
Physics	14	12	13	3	3	12	19	33	29	33
Social Studies	569	489	369	370	283	284	262	294	342	425
Vocational Education	111	133	137	164	132	100	93	64	137	42
Other Secondary	10	2	0	0	0	1	4	0	0	4
K-12	2 705	2 379	1 977	1 761	1 569	1 360	1 290	1 146	1 154	1 064
Agriculture	22	45	35	45	27	17	17	12	16	16
Art	339	291	237	211	188	165	147	156	164	130
Foreign Languages, Total	232	184	150	143	101	112	103	104	116	118
French	69	49	44	44	34	32	34	32	30	34
German	37	26	21	20	11	8	11	18	19	18
Italian	6	5	6	4	2	2	0	0	0	1
Latin	3	7	5	7	4	3	8	9	5	7
Russian	2	3	0	0	1	2	0	0	1	0
Spanish	111	92	71	65	49	64	49	43	61	58
Other	4	2	3	3	0	1	1	2	0	0
Health	38	37	33	15	23	13	20	16	28	25
Health & Physical Education	894	841	697	620	597	473	412	354	338	301
Home Economics	192	149	103	95	62	39	40	26	21	17
Industrial Arts	264	236	162	135	161	147	145	109	89	76
Library Science	117	84	91	74	62	56	42	55	32	41
Music	607	512	469	423	348	335	259	272	272	282
Reading Specialist	0	0	0	0	0	3	105	62	78	58
SPECIAL EDUCATION	1 516	1 467	1 373	1 580	1 334	1 094	915	824	850	687
Hearing Impaired	26	34	39	43	33	97	27	29	30	22
Mentally/Physically Handicapped	1 106	1 095	1 030	1 205	1 011	830	697	603	652	542
Speech/Language Impaired	351	303	269	297	259	148	173	156	125	110
Visually Impaired	33	35	35	35	31	19	18	36	43	13

TABLE 5

EMPLOYMENT STATUS OF TEACHERS BY TYPE OF PREPARATION
1978-79 THROUGH 1987-88

	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88
TOTAL	9 505	8 444	7 396	7 172	6 414	5 987	5 961	5 946	6 866	6 709
Teaching	4 021	3 598	3 003	2 606	2 447	2 395	2 530	2 695	2 771	2 680
In-State	2 951	2 595	2 160	1 904	1 744	1 670	1 788	1 912	2 074	1 959
Out-of-State	1 070	1 003	843	702	703	725	742	783	697	721
Not Teaching	2 658	2 255	2 073	1 929	1 774	1 583	1 286	1 360	1 368	1 432
Otherwise Gainfully Employed	1 079	898	870	637	691	559	468	447	480	442
Continuing Formal Study	476	484	395	441	390	305	283	290	269	274
Seeking Teaching Position	892	704	614	674	585	590	453	500	555	599
Seeking Non-Teaching Position	67	59	39	31	24	30	20	31	10	42
Other	144	110	155	146	84	99	62	92	54	75
Unknown	2 826	2 591	2 320	2 637	2 193	2 009	2 145	1 891	2 727	2 597
ELEMENTARY	3 380	2 996	2 570	2 446	2 322	2 263	2 384	2 446	2 933	3 140
Teaching	1 490	1 409	1 074	977	1 015	950	1 012	1 154	1 306	1 330
In-State	1 124	1 043	788	759	750	686	737	777	975	987
Out-of-State	366	366	286	218	265	264	275	377	331	343
Not Teaching	968	805	737	721	646	594	500	523	553	612
Otherwise Gainfully Employed	355	291	246	200	236	227	168	162	172	158
Continuing Formal Study	107	131	112	109	92	72	75	65	69	91
Seeking Teaching Position	421	323	295	344	275	241	229	255	278	315
Seeking Non-Teaching Position	25	20	12	14	9	9	9	7	3	20
Other	60	40	72	54	34	45	19	34	31	28
Unknown	922	782	759	748	661	719	872	769	1 074	1 198
SECONDARY	1 904	1 602	1 476	1 385	1 189	1 270	1 372	1 530	1 929	1 818
Teaching	806	614	533	473	433	501	591	662	664	635
In-State	625	476	440	378	332	373	441	526	529	486
Out-of-State	181	138	93	95	101	128	150	136	135	149
Not Teaching	541	463	403	350	298	311	295	354	364	413
Otherwise Gainfully Employed	243	189	209	140	125	108	130	120	135	158
Continuing Formal Study	103	97	69	78	65	58	48	52	62	59
Seeking Teaching Position	144	133	88	107	84	120	96	142	155	165
Seeking Non-Teaching Position	18	12	11	6	3	11	4	15	3	8
Other	33	32	26	19	21	14	17	25	9	23
Unknown	557	525	540	562	458	458	486	514	901	770
K-12	2 705	2 379	1 977	1 761	1 569	1 360	1 290	1 146	1 154	1 064
Teaching	900	812	662	533	451	439	465	452	400	397
In-State	645	581	464	365	314	287	297	331	288	282
Out-of-State	255	231	198	168	137	152	168	121	112	115
Not Teaching	851	716	642	517	493	438	304	282	255	269
Otherwise Gainfully Employed	397	322	310	208	224	165	126	110	139	94
Continuing Formal Study	155	159	123	112	98	79	68	74	37	64
Seeking Teaching Position	240	186	167	138	150	155	89	64	70	89
Seeking Non-Teaching Position	23	25	13	10	7	9	6	8	1	8
Other	36	24	29	49	14	30	15	26	8	14
Unknown	954	851	673	711	625	483	521	412	499	398
SPECIAL EDUCATION	1 516	1 467	1 373	1 580	1 334	1 094	915	824	850	687
Teaching	825	763	734	623	548	505	462	427	401	318
In-State	557	495	468	402	348	324	313	278	282	204
Out-of-State	268	268	266	221	200	181	149	149	119	114
Not Teaching	298	271	291	341	337	240	187	201	196	138
Otherwise Gainfully Employed	84	96	105	89	106	59	44	55	34	32
Continuing Formal Study	111	97	91	142	135	96	92	99	101	60
Seeking Teaching Position	87	62	64	85	76	74	39	39	52	30
Seeking Non-Teaching Position	1	2	3	1	5	1	1	1	3	6
Other	15	14	28	24	15	10	11	7	6	10
Unknown	393	433	348	616	449	349	266	196	253	231

TABLE 6

EMPLOYMENT STATUS OF TEACHERS PREPARED BY AREA OF CERTIFICATION
1987-88

	TEACHING			NOT TEACHING						
	All	In-State	Out-of-State	All	Otherwise Gainfully Employed	Continuing Formal Study	Seeking Teaching Position	Seeking Non-Teaching Position	Other	Unknown
TOTAL	2 680	1 959	721	1 432	442	274	599	42	75	2 597
ELEMENTARY	1 330	987	343	612	158	91	315	20	28	1 198
Elementary, General	1 106	814	292	537	138	80	278	15	26	1 031
Early Childhood	224	173	51	75	20	11	37	5	2	167
SECONDARY	635	486	149	413	158	59	165	8	23	770
Accounting	6	6	0	8	5	0	2	0	1	7
Biology	71	56	15	50	20	6	20	0	4	85
Chemistry	35	32	3	14	7	1	5	1	0	27
Communications	15	10	5	13	4	2	5	0	2	35
Cooperative Education	0	0	0	0	0	0	0	0	0	1
Data Processing	2	1	1	1	0	0	1	0	0	3
Earth and Space Science	15	12	3	13	4	2	7	0	0	28
English	120	88	32	58	14	12	29	1	2	109
Environmental Education	1	1	0	1	1	0	0	0	0	1
General Science	17	14	3	11	5	2	3	0	1	31
Marketing	2	1	1	2	1	0	1	0	0	5
Marketing & Distributive Educ.	2	1	1	5	3	0	1	1	0	7
Mathematics	174	136	38	80	33	10	30	3	4	177
Office Technology	3	2	1	3	0	0	0	0	3	11
Physics	13	11	2	7	4	2	1	0	0	13
Physics and Mathematics	11	9	2	0	0	0	0	0	0	12
Secretarial	19	14	5	11	7	2	1	0	1	16
Social Studies	125	88	37	136	50	20	59	2	5	164
Vocational Education	4	4	0	0	0	0	0	0	0	38
K-12	397	282	115	269	94	64	89	8	14	398
Agriculture	0	0	0	0	0	0	0	0	0	16
Art	58	45	13	35	11	4	18	0	2	37
Foreign Languages	52	41	11	27	5	9	10	1	2	39
Health	5	2	3	7	2	4	1	0	0	13
Health and Physical Education	55	34	21	83	37	15	24	3	4	163
Home Economics	12	11	1	3	1	0	1	1	0	2
Industrial Arts	44	30	14	29	14	9	4	0	2	3
Library Science	19	15	4	8	1	6	1	0	0	14
Music	124	81	43	72	23	16	28	2	3	86
Reading Specialist	28	23	5	5	0	1	2	1	1	25
SPECIAL EDUCATION	318	204	114	138	32	60	30	6	10	231
Hearing Impaired	9	7	2	3	1	1	1	0	0	10
Mentally/Physically Handicapped	272	176	96	80	22	20	23	6	9	190
Speech/Language Impaired	29	16	13	50	9	34	6	0	1	31
Visually Impaired	8	5	3	5	0	5	0	0	0	0

TABLE 7

OUTLOOK OF TEACHER DEMAND IN PENNSYLVANIA
1984-1995

Location/Occupation	Employment				Annual Average Job Openings 1984-1995		
	Estimated 1984	Projected 1995	Change 1984-1995 Number	Change 1984-1995 Percent	Due to Growth	Due to Labor Force Separation 1/	Annual Average Total
State Total							
Preschool & Elementary	60 695	67 834	7 139	11.8	649	1 491	2 140
Secondary	65 044	70 478	5 434	8.4	494	1 430	1 924
Allentown-Bethlehem MSA							
Preschool & Elementary	3 624	4 254	630	17.4	57	91	148
Secondary	3 167	3 551	384	12.1	35	71	106
Altoona MSA							
Preschool & Elementary	703	772	69	9.8	6	17	23
Secondary	728	757	29	4.0	3	16	19
Beaver County MSA							
Preschool & Elementary	709	781	72	10.2	7	17	24
Secondary	902	980	78	8.6	7	20	27
Erie MSA							
Preschool & Elementary	1 458	1 651	193	13.2	18	36	54
Secondary	1 580	1 748	168	10.6	15	35	50
Harrisburg-Lebanon-Carlisle MSA							
Preschool & Elementary	3 205	3 642	437	13.6	40	79	119
Secondary	3 597	4 008	411	11.4	37	80	117
Johnstown MSA							
Preschool & Elementary	1 239	1 393	154	12.4	14	31	45
Secondary	1 430	1 539	109	7.6	10	31	41
Lancaster MSA							
Preschool & Elementary	2 496	2 902	406	16.3	37	63	100
Secondary	2 628	2 953	325	12.4	30	59	89

TABLE 7

OUTLOOK OF TEACHER DEMAND IN PENNSYLVANIA--Concluded
1984-1995

Location/Occupation	Employment				Annual Average Job Openings 1984-1995		
	Estimated 1984	Projected 1995	Change 1984-1995 Number	Change 1984-1995 Percent	Due to Growth	Due to Labor Force Separation 1/	Annual Average Total
Philadelphia MSA							
Preschool & Elementary	20 797	22 846	2 049	9.9	187	506	693
Secondary	18 666	19 785	1 119	6.0	102	405	507
Pittsburgh MSA							
Preschool & Elementary	10 480	11 656	1 176	11.2	107	257	364
Secondary	11 927	13 093	1 166	9.8	106	264	370
Reading MSA							
Preschool & Elementary	1 431	1 601	170	11.9	15	35	50
Secondary	1 489	1 599	110	7.4	10	33	43
Scranton-Wilkes Barre MSA							
Preschool & Elementary	3 150	3 442	292	9.3	27	77	104
Secondary	3 778	3 957	179	4.7	16	82	98
Sharon MSA							
Preschool & Elementary	526	576	50	9.5	5	13	18
Secondary	847	925	78	9.2	7	19	26
State College MSA							
Preschool & Elementary	413	457	44	10.7	4	10	14
Secondary	556	571	15	2.7	1	12	13
Williamsport MSA							
Preschool & Elementary	480	495	15	3.1	1	11	12
Secondary	560	592	32	5.7	3	12	15
York MSA							
Preschool & Elementary	1 947	2 199	252	12.9	23	48	71
Secondary	2 005	2 181	176	8.8	16	44	60

1/ Labor force separations are due to death, retirement, disability, or withdrawl for personal reasons.

Note: State total includes areas not covered under listed MSA's.

Source: *Pennsylvania Occupational Trends and Outlook for Total Civilian Employment, 1984 and Projected 1995,* Pennsylvania Department of Labor and Industry

APPENDIX A

GLOSSARY

BUSINESS EDUCATION--Includes graduates certified by individual subject area (accounting, data processing, distributive education, secretarial, and office technology) with most or all people receiving multiple certificates. For multiple certificated students, institutions were instructed to categorize into the one most likely to represent the employment area.

ELEMENTARY--Includes persons prepared for the regular elementary certificate (K-6) or the early childhood certificate (N-3). Does not include those prepared for teaching in special education classes or those prepared for combined (K-12) certificates.

INSTRUCTIONAL I--The initial teaching certificate awarded to those who are qualified to enter the teaching profession. The certificate expires after the completion of six years of teaching experience.

K-12--Includes persons prepared for assignment at any grade level (K-12). Does not include those prepared for teaching in special education classes or those prepared for elementary (K-6) or secondary (7-12) certificates.

MSA--Refers to a county or group of contiguous counties forming a metropolitan area based on criteria developed by the U.S. Census Bureau.

SECONDARY--Includes persons prepared for assignments in junior and/or senior high school (7-12). Does not include those prepared for teaching in special education classes or those prepared for combined (K-12) certificates.

SPECIAL EDUCATION--Includes persons prepared with the minimum certification requirements (or professional requirements) for entering assignments to teach the mentally deficient, deaf or hard of hearing, visually handicapped, speech handicapped, orthopedically handicapped, gifted and talented, emotionally disturbed, educationally disadvantaged, severely underachieving, and other pupils with characteristics which require special training competencies.

VOCATIONAL EDUCATION--Includes persons who are certified to teach in areas of trade and industrial (occupational) education. Does not include industrial arts teachers (certificate code 6000).

APPENDIX B

SOURCES

1. Occupations of Persons Completing Preparation for an Instructional I Certificate in Pennsylvania (PDE-4042).
2. *Pennsylvania Occupational Trends and Outlook for Total Civilian Employment, 1984 and Projected 1995*, Pennsylvania Department of Labor and Industry.

APPENDIX C

NONRESPONDENTS
(data estimated)

Antioch University

Bryn Mawr College

Widener University

S[illegible] 7-[illegible]

Colleges and Universities

Residence of First-Time Students
Fall 1988

DDS
Data Series

Pennsylvania Department of Education 1989

Colleges and Universities

Residence of First-Time Students
Fall 1988

This is one in a series of publications containing statistical summaries related to basic education, postsecondary education, and vocational education in Pennsylvania. For more detailed data, contact the Division of Data Services at (717) 787-2644.

Commonwealth of Pennsylvania
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Department of Education
Terry Dellmuth, Acting Secretary

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Compiled by: Devki N. Khanna, Educational Statistics Associate

July 1989

Pennsylvania Department of Education
333 Market Street
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HIGHLIGHTS

* During the Fall of 1988, 77.0 percent of the total first-time students, all levels, were from Pennsylvania, 19.7 percent were from other states, 2.4 percent were from foreign countries, while 0.9 percent were either from U.S. territories or their state of residence was unknown.

* Seventy percent of all first-time freshmen enrolled were graduated from high school during the 1987-88 academic year. Of those 1987-88 high school graduates, 76.1 percent were from Pennsylvania.

* Over sixty percent of the first-time first-professional students and 63.8 percent of the first-time graduate students were from Pennsylvania.

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OVERVIEW

During the Fall of 1988, a total of 142,736 first-time students were enrolled in Pennsylvania colleges and universities. Of those, 69.5 percent were first-time freshmen, 16.9 percent were first-time undergraduate transfers, 10.8 percent were first-time graduate students, and 2.8 percent were first-time first-professional students. Of the total first-time enrollments, 20.6 percent were from out-of-state and 2.4 percent were from foreign countries.

With regard to contiguous states, 10,225 first-time students enrolled in Pennsylvania colleges and universities were from New Jersey and 5,596 were from New York. Other states sending one thousand or more first-time students were Maryland, Ohio, and Connecticut.

A significant number (over twelve percent) of first-time graduate students in Pennsylvania colleges were from foreign countries. Of 3,405 first-time foreign students enrolled, 1,921 were graduate students and 94 were first-professionals.

The private colleges and universities, private state-aided institutions and theological seminaries attracted, in general, greater percentages of graduate and first-professional level out-of-state students in comparison to the state universities and state-related commonwealth universities. Foreign students were equally well represented in private four-year institutions at these levels. The higher percentage of these students may be due to specialized curriculums being offered by these institutions and a competitive tuition charged for graduate and professional level programs.

The national data published by the U.S. Department of Education indicates that for Fall 1986, the state of New Jersey had a net out-migration of 28,712 first-time students at all levels. This was by far the largest loss of any state or the District of Columbia. During the same period, California had a net in-migration of 15,502, followed by Arizona (12,070), North Carolina (11,562), Massachussetts (11,546) and the District of Columbia (11,022).

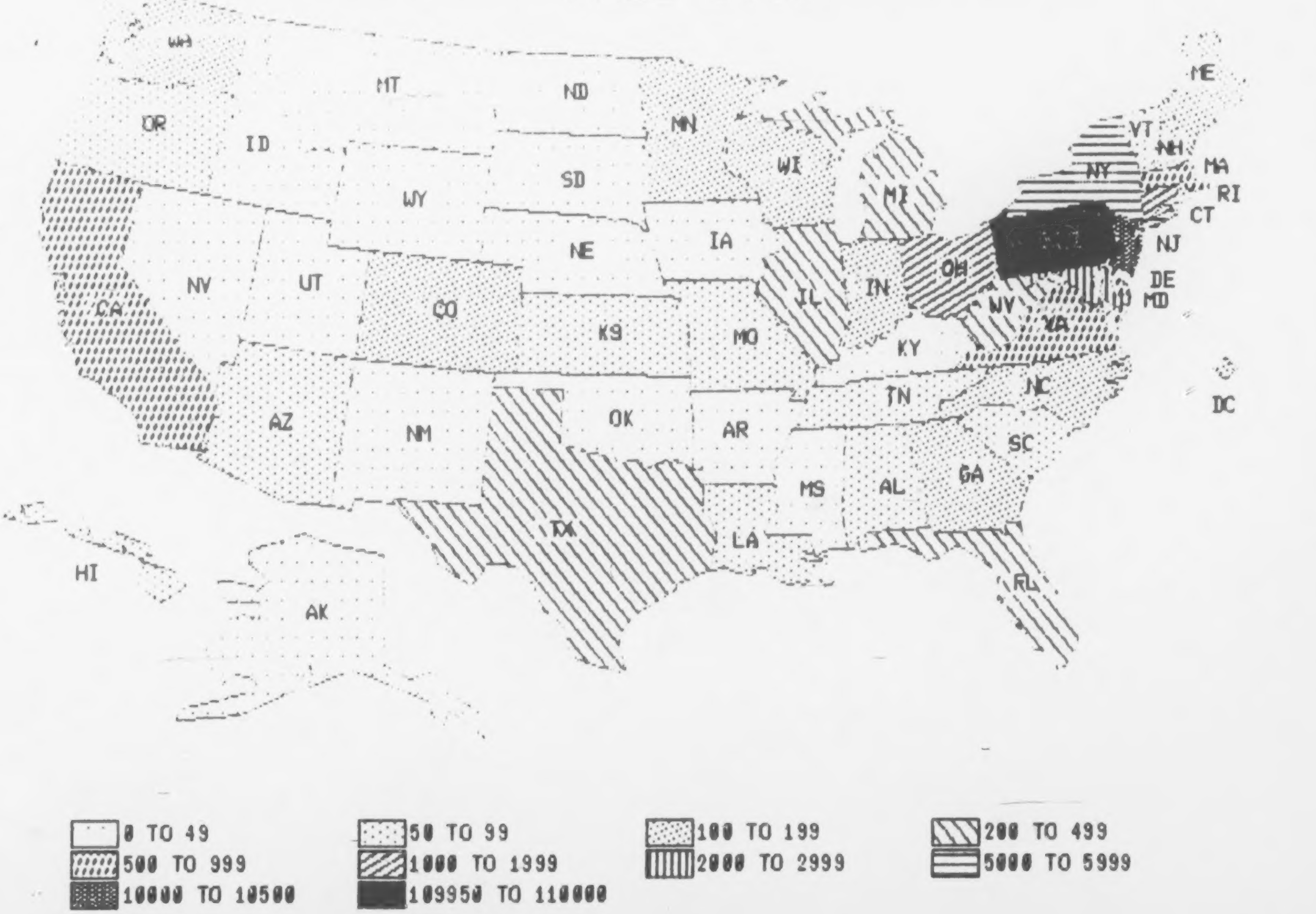
TABLE 1

RESIDENCE OF FIRST-TIME STUDENTS IN PENNSYLVANIA COLLEGES AND UNIVERSITIES BY LEVEL OF PROGRAM
FALL 1988

Legal Residence	Total All Students	UNDERGRADUATES			FIRST-PROFESSIONALS	GRADUATES
		First-Time Freshmen				
		Total	1987-88 High School Graduates	Transfers		
Total	142 736	99 287	69 495	24 110	3 928	15 411
Alabama	50	26	17	6	5	13
Alaska	22	11	9	4	0	7
Arizona	58	37	27	0	6	15
Arkansas	23	12	7	1	2	8
California	704	377	294	47	108	172
Colorado	120	82	54	7	10	21
Connecticut	1 289	1 062	773	84	56	87
Delaware	867	441	347	198	47	181
District of Columbia	196	141	104	20	13	22
Florida	496	333	241	54	39	70
Georgia	149	97	79	16	9	27
Hawaii	50	32	21	5	6	7
Idaho	9	7	5	0	0	2
Illinois	403	287	213	21	24	71
Indiana	142	73	52	16	10	43
Iowa	45	23	9	10	1	11
Kansas	57	30	17	7	2	18
Kentucky	42	27	16	2	1	12
Louisiana	51	34	20	8	2	7
Maine	139	107	76	13	3	16
Maryland	2 154	1 677	1 322	201	115	161
Massachusetts	998	762	520	54	50	132
Michigan	276	157	124	25	21	73
Minnesota	118	69	45	10	7	32
Mississippi	17	11	5	1	1	4
Missouri	84	53	34	5	3	23
Montana	11	5	3	2	0	4
Nebraska	29	17	13	2	3	7
Nevada	14	4	3	4	0	6
New Hampshire	170	137	105	13	11	9
New Jersey	10 225	7 526	6 018	1 523	360	816
New Mexico	31	20	17	5	0	6
New York	5 596	4 320	3 449	483	302	491
North Carolina	155	80	51	14	17	44
North Dakota	1	1	1	0	0	0
Ohio	1 402	1 070	826	151	38	143
Oklahoma	38	26	21	4	2	6
Oregon	60	32	20	2	8	18
Pennsylvania	109 953	77 361	52 857	20 396	2 366	9 830
Rhode Island	112	85	61	5	9	13
South Carolina	76	46	30	3	8	19
South Dakota	7	4	3	2	0	1
Tennessee	76	52	43	6	1	17
Texas	239	157	115	22	11	49
Utah	29	11	9	1	2	15
Vermont	81	58	42	5	6	12
Virginia	776	578	449	68	35	95
Washington	112	72	51	3	10	27
West Virginia	238	159	96	26	13	40
Wisconsin	103	53	34	3	17	30
Wyoming	10	2	2	2	0	6
State Unknown	951	300	48	101	60	490
American Samoa	1	1	1	0	0	0
Guam	1	0	0	0	0	1
Puerto Rico	229	136	121	23	12	58
Trust Territory	1	0	0	0	1	0
Virgin Islands	45	41	34	1	1	2
Foreign Countries	3 405	965	541	425	94	1 921

NOTE: Total first-time freshmen include 1987-88 high school graduates.

FIGURE 1
RESIDENCE OF FIRST-TIME STUDENTS IN PENNSYLVANIA COLLEGES AND UNIVERSITIES
FALL 1988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0 TO 49
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1000 TO 1999
2000 TO 2999
5000 TO 5999
10000 TO 10500
109950 TO 110000

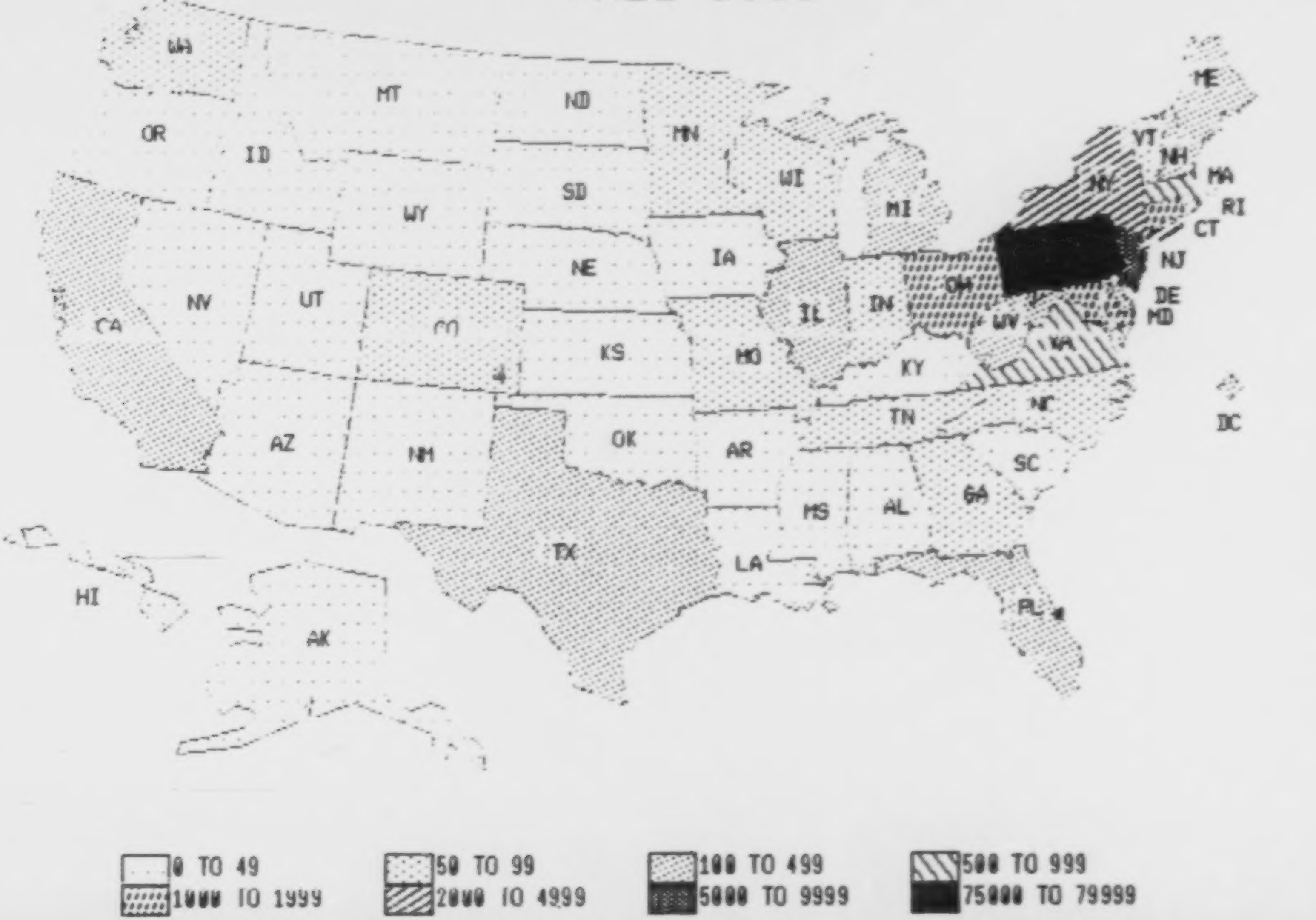
TABLE 2

FIRST-TIME STUDENTS IN PENNSYLVANIA COLLEGES AND UNIVERSITIES BY TYPE OF INSTITUTION
FALL 1988

Institutional Category	Total Students	Out-of-State Students		Foreign Students	
		Number	Percent	Number	Percent
TOTAL					
First-Time Freshmen	99 287	20 961	21.1	965	1.0
1987-88 High School Graduates	69 495	16 097	23.2	541	0.8
First-Time Undergraduate Transfers	24 110	3 289	13.6	425	1.8
First-Time First-Professionals	3 928	1 468	37.4	94	2.4
First-Time Graduates	15 411	3 660	23.8	1 921	12.5
STATE-UNIVERSITIES					
First-Time Freshmen	16 719	2 605	15.6	199	1.2
1987-88 High School Graduates	15 148	2 502	16.5	112	0.7
First-Time Undergraduate Transfers	4 713	606	12.9	109	2.3
First-Time First-Professionals	0	0	0.0	0	0.0
First-Time Graduates	1 832	153	8.4	90	4.9
STATE-RELATED COMMONWEALTH UNIVERSITIES					
First-Time Freshmen	19 016	2 840	14.9	61	0.3
1987-88 High School Graduates	17 320	2 644	15.3	20	0.1
First-Time Undergraduate Transfers	5 943	567	9.5	132	2.2
First-Time First-Professionals	1 220	279	22.9	4	0.3
First-Time Graduates	4 793	1 234	25.8	876	18.3
COMMUNITY COLLEGES					
First-Time Freshmen	26 226	169	0.6	39	0.2
1987-88 High School Graduates	10 739	75	0.7	10	0.1
First-Time Undergraduate Transfers	4 151	81	2.0	8	0.2
First-Time First Professionals	0	0	0.0	0	0.0
First-Time Graduates	0	0	0.0	0	0.0
PRIVATE STATE-AIDED INSTITUTIONS					
First-Time Freshmen	5 784	2 909	50.3	200	3.5
1987-88 High School Graduates	5 241	2 731	52.1	134	2.6
First-Time Undergraduate Transfers	2 254	751	33.3	79	3.5
First-Time First-Professionals	1 616	797	49.3	68	4.2
First-Time Graduates	3 368	1 426	42.3	607	18.0
PRIVATE COLLEGES AND UNIVERSITIES					
First-Time Freshmen	29 194	11 910	40.8	421	1.4
1987-88 High School Graduates	19 222	7 721	40.2	241	1.3
First-Time Undergraduate Transfers	6 785	1 231	18.1	91	1.3
First-Time First-Professionals	717	212	29.6	4	0.6
First-Time Graduates	5 177	746	14.4	326	6.3
THEOLOGICAL SEMINARIES					
First-Time Freshmen	5	1	20.0	0	0.0
1987-88 High School Graduates	4	1	25.0	0	0.0
First-Time Undergraduate Transfers	9	7	77.8	0	0.0
First-Time First-Professionals	375	180	48.0	18	4.8
First-Time Graduates	241	101	41.9	22	9.1
PRIVATE JUNIOR COLLEGES					
First-Time Freshmen	2 343	527	22.5	45	1.9
1987-88 High School Graduates	1 821	423	23.2	24	1.3
First-Time Undergraduate Transfers	255	46	18.0	6	2.4
First-Time First-Professionals	0	0	0.0	0	0.0
First-Time Graduates	0	0	0.0	0	0.0

NOTE: First-time freshmen includes 1987-88 high school graduates.

FIGURE 2
RESIDENCE OF FIRST-TIME FRESHMEN IN PENNSYLVANIA
COLLEGES AND UNIVERSITIES
FALL 1988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500 TO 999
1000 TO 1999
2000 TO 4999
5000 TO 9999
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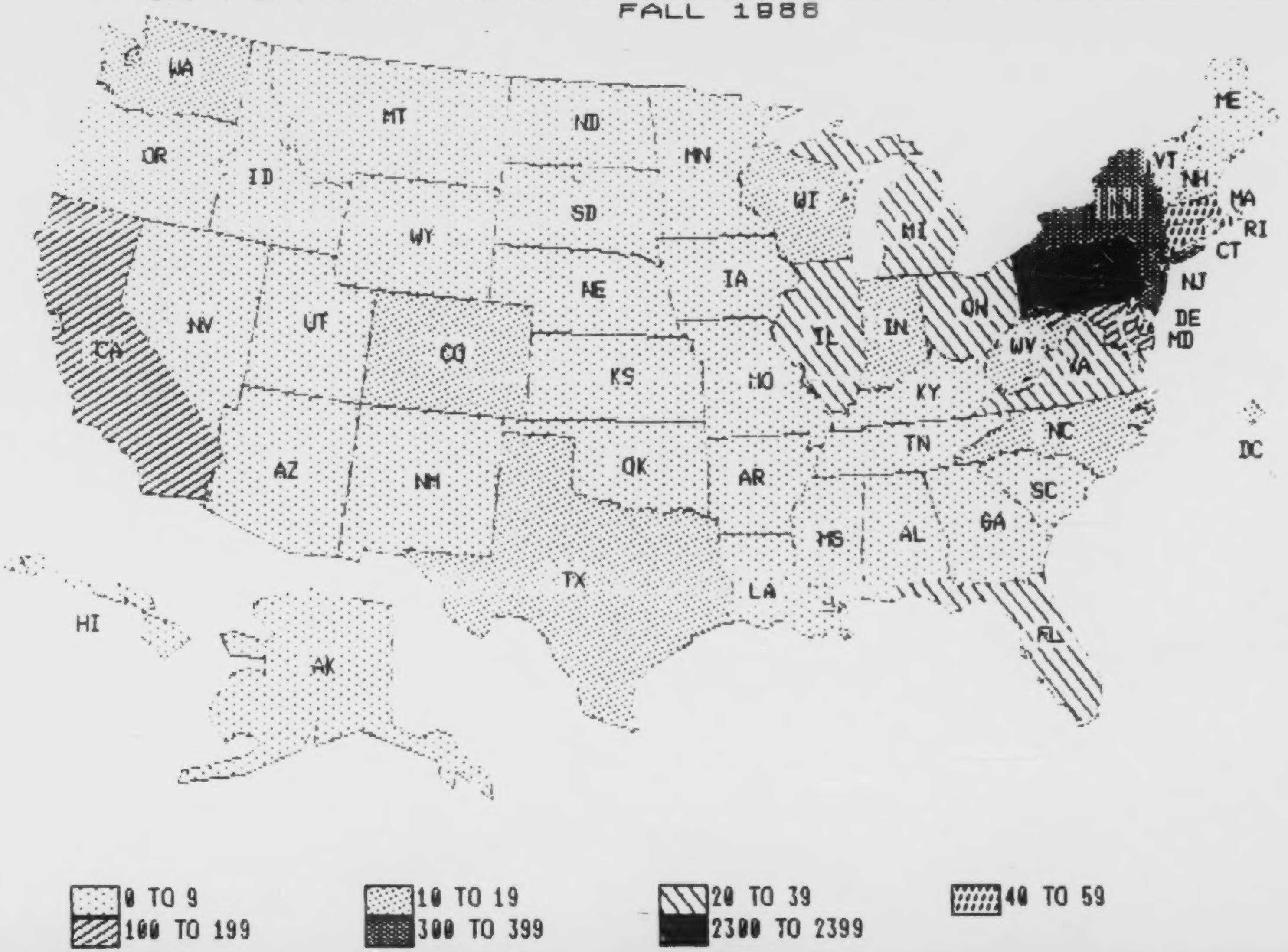
FIGURE 3

RESIDENCE OF FIRST-TIME FIRST-PROFESSIONAL STUDENTS IN PENNSYLVANIA COLLEGES AND UNIVERSITIES FALL 1988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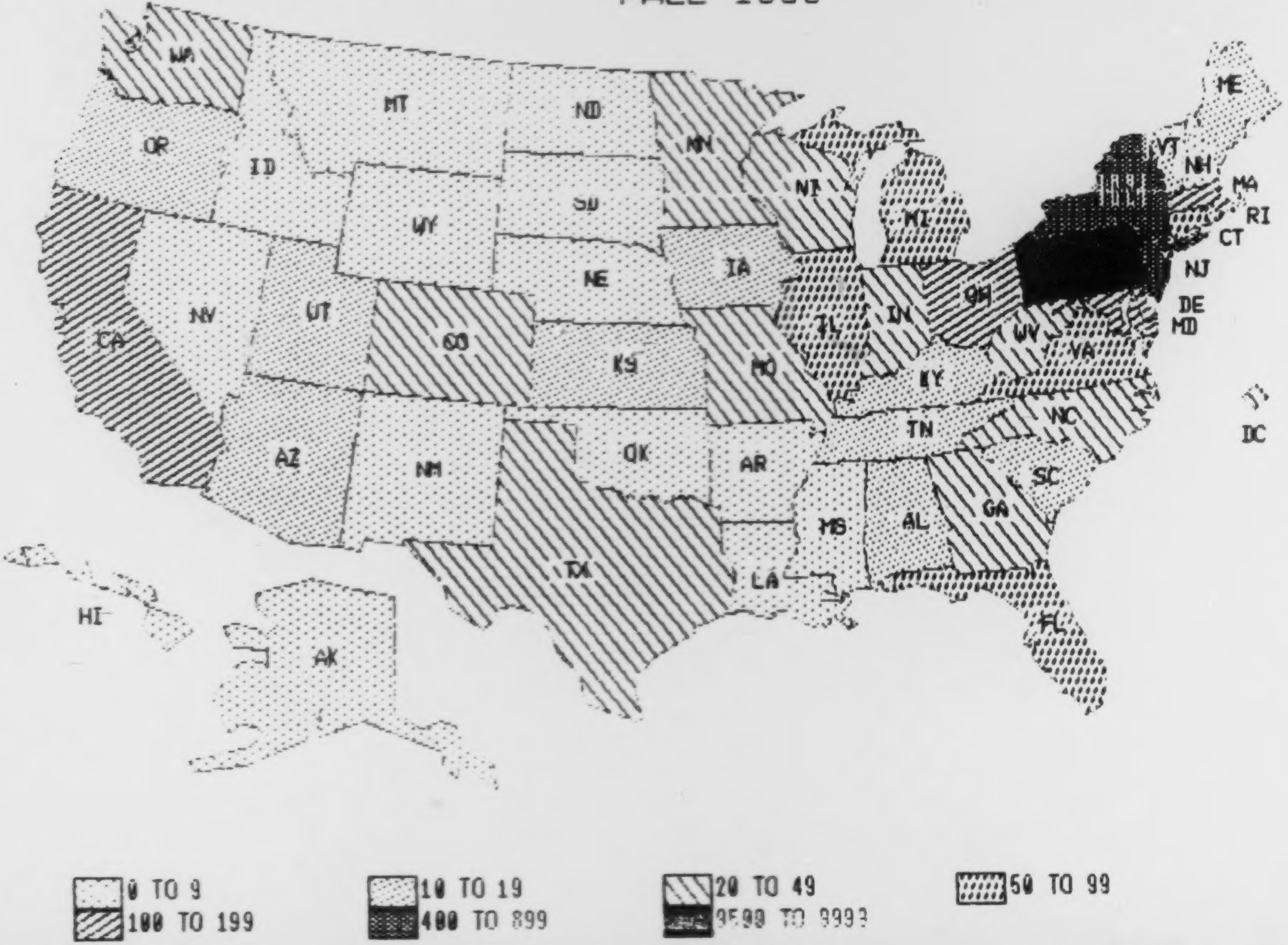
20 TO 39
40 TO 59
100 TO 199
300 TO 399
2300 TO 2399

FIGURE 4
RESIDENCE OF FIRST-TIME GRADUATE STUDENTS IN PENNSYLVANIA COLLEGES AND UNIVERSITIES
FALL 1988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20 TO 49
50 TO 99
100 TO 199
400 TO 899
3500 TO 9999

TABLE 3

MIGRATION OF ALL NEW STUDENTS IN COLLEGES AND UNIVERSITIES BY STATE
FALL 1986

State or Other Area	Migration of Students Out of	 Into	 Net Change
UNITED STATES	468 895	468 895	0
Alabama	4 051	9 658	5 607
Alaska	2 851	317	-2 534
Arizona	3 766	15 836	12 070
Arkansas	3 865	3 337	-528
California	21 025	36 527	15 502
Colorado	8 033	1 737	-6 296
Connecticut	16 141	8 024	-8 117
Delaware	2 310	3 473	1 163
District of Columbia	2 921	13 943	11 022
Florida	15 935	16 223	288
Georgia	9 106	10 339	1 233
Hawaii	2 681	1 887	-794
Idaho	2 962	4 218	1 256
Illinois	24 595	19 118	-5 477
Indiana	7 144	12 419	5 275
Iowa	6 498	7 802	1 304
Kansas	4 170	6 409	2 239
Kentucky	4 435	5 076	641
Louisiana	4 694	6 213	1 519
Maine	3 452	2 551	-901
Maryland	14 689	11 289	-3 400
Massachusetts	16 885	28 431	11 546
Michigan	11 045	9 756	-1 289
Minnesota	10 815	8 842	-1 973
Mississippi	3 053	3 969	916
Missouri	8 183	12 215	4 032
Montana	2 395	1 080	-1 315
Nebraska	3 433	3 165	-268
Nevada	2 139	1 017	-1 122
New Hampshire	4 613	5 073	460
New Jersey	35 859	7 147	-28 712
New Mexico	2 881	2 555	-326
New York	38 493	30 262	-8 231
North Carolina	5 465	17 027	11 562
North Dakota	2 017	2 731	714
Ohio	15 106	13 159	-1 947
Oklahoma	4 126	2 572	-1 554
Oregon	4 373	6 031	1 658
Pennsylvania	21 356	24 917	3 561
Rhode Island	3 505	8 485	4 980

TABLE 3

MIGRATION OF ALL NEW STUDENTS IN COLLEGES AND UNIVERSITIES BY STATE--Concluded
FALL 1986

State or Other Area	Migration of Students		
	Out of	Into	Net Change
South Carolina	4 605	6 679	2 074
South Dakota	2 172	1 939	-233
Tennessee	6 064	10 470	4 406
Texas	10 889	15 929	5 040
Utah	2 208	6 325	4 117
Vermont	2 204	4 779	2 575
Virginia	13 653	13 238	-415
Washington	7 393	9 837	2 444
West Virginia	2 727	4 322	1 595
Wisconsin	7 769	9 648	1 879
Wyoming	1 640	899	-741
State Unknown 1/	46 505	-	-46 505

1/ Students are reported in "State Unknown" when an institution is unable to determine the student's home state.

NOTE: A dash (-) indicates not applicable.

Source: *Digest of Education Statistics, 1988*, U.S. Department of Education, Office of Educational Research and Improvement

APPENDIX A

GLOSSARY

FIRST-TIME FIRST-PROFESSIONAL STUDENT--A student enrolled for the first time in a professional school or program which requires at least two academic years of college work for entrance and a total of at least six years for a degree.

FIRST-TIME FRESHMAN--An entering freshman who has not previously attended any college. Also included are those students who entered with advanced standing (college credits earned before graduation from high school) at the freshman level and those who attended college for the first time during the summer of 1988. Identified separately are those students who graduated from high school during the 1987-88 academic year. All other first-time freshmen are entering freshmen who have not previously attended any college and who are not 1987-88 academic year high school graduates.

FIRST-TIME GRADUATE STUDENT--An entering student who holds a bachelor's or first-professional degree, or equivalent, and is working toward a master's or doctor's degree.

FIRST-TIME STUDENT--A student enrolled at an institution for the first time at any of the following levels - undergraduate, graduate, or first-professional. This terminology is synonymous to "New Student" used in table 3.

FIRST-TIME UNDERGRADUATE--A student enrolled for the first time in a four- or five-year bachelor's degree program, in an associate degree program, or in a vocational or technical program that is normally terminal and results in formal recognition below the baccalaureate.

FIRST-TIME UNDERGRADUATE TRANSFER STUDENT--An entering undergraduate student who has attended another college and has not received a baccalaureate degree. They may be transferring with or without credit.

FOREIGN-STUDENT--A person who is not a citizen of the United States and who is in this country on a temporary basis and does not have the right to remain indefinitely. In other surveys this person is classified as a non-resident alien.

LEGAL RESIDENCE--A person's permanent address as determined by such evidence as a driver's license or voter registration. For entering freshmen residence may be the legal residence of a parent or guardian.

NEW STUDENT--Terminology synonymous to "First-Time Student".

APPENDIX B

SOURCES

1. Residence of First-Time Students (ED G50-14P-R)

2. *Digest of Education Statistics, 1988,* U.S. Department of Education, Office of Educational Research and Improvement

S6790-5.8-U

Public and Nonpublic Schools

Enrollments
1988-89

DDS
Data Series

Pennsylvania Department of Education 1989

Public and Nonpublic Schools

Enrollments
1988-89

This is one in a series of publications containing statistical summaries related to basic education, postsecondary education, and vocational education in Pennsylvania. For more detailed data, contact the Division of Data Services at (717) 787-2644.

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Department of Education
Terry Dellmuth, Acting Secretary

Bureau of Information Systems
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Roger G. Hummel, Chief
Compiled by: Robert T. Burrows, Jr., Educational Statistics Associate

July 1989

Pennsylvania Department of Education
333 Market Street
Harrisburg, PA 17126-0333

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STATISTICAL HIGHLIGHTS

	Enrollments 1988-89	Percent change from 1987-88
Public Schools		
Elementary	896,213	+ 2.4%
Secondary	762,122	- 4.0%
Total	1,658,335	- 0.6%
Nonpublic Schools		
Elementary	260,876	- 1.0%
Secondary	89,188	- 4.5%
Total	350,064	- 1.9%
All Schools		
Elementary	1,157,089	+ 1.6%
Secondary	851,310	- 4.0%
State Total	2,008,399	- 0.8%

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OVERVIEW

Total school enrollments declined over the decade from the 2,368,756 pupils reported in 1979-80 to the 1988-89 level of 2,008,399 pupils, a drop of 15.2 percent. While elementary enrollments have increased in recent years, secondary enrollments have continued to decrease over the entire ten-year period.

Total elementary enrollments have increased 4.1 percent to 1,157,089 pupils in 1988-89 from 1,111,960 pupils reported in 1985-86. This trend is also evident in the public school elementary enrollments, up 7.5 percent from the 833,996 pupils reported in 1984-85 to 896,213 pupils reported in 1988-89. Nonpublic school elementary enrollments, however, have experienced a decline of 8.6 percent from 285,372 pupils reported in 1983-84 to the 1988-89 level of 260,876 pupils.

Total secondary enrollments have continued their decline over the past ten years. A total of 851,310 secondary pupils were reported in 1988-89, a decrease of 23.6 percent from the 1,114,917 pupils reported in 1979-80. Public school secondary enrollments declined 23.8 percent from 1,000,476 pupils reported in 1979-80 to 762,122 pupils in 1988-89. Nonpublic school secondary enrollments have dropped 22.1 percent over the same ten-year period.

In the current year, public schools recorded an overall decline in enrollments of 0.6 percent from 1,668,542 pupils reported in 1987-88 to 1,658,335 pupils reported in 1988-89. Public elementary enrollments increased by 2.4 percent from the 874,784 pupils reported in 1987-88 to 896,213 reported in 1988-89. Public secondary enrollments, however, dropped 4.0 percent to 762,122 pupils in 1988-89 from 793,758 pupils in 1987-88. In 1988-89, nonpublic schools recorded declining enrollments at both the elementary and secondary levels. Nonpublic elementary enrollments declined 1.0 percent to 260,876 pupils in 1988-89 from the 263,579 pupils reported in 1987-88. Nonpublic secondary enrollments dropped 4.5 percent to 89,188 pupils.

The past decade has also seen changes in the number of schools operated. The number of public schools operating has declined by 13.7 percent from 3,805 schools in 1979-80 to 3,282 schools reported in 1988-89. The nonpublic school sector, after experiencing growth from 1981-82 through 1987-88, recorded three fewer schools in 1988-89 than the previous year. This could be attributed to the declining number of Roman Catholic schools, down 1.2 percent since 1987-88. Roman Catholic schools accounted for 36.2 percent of all nonpublic schools. Secular schools accounted for 20.7 percent of all nonpublic schools, down 0.2 percent from the number of schools reported in 1987-88. Religious, non-catholic schools accounted for 43.1 percent of nonpublic schools, up 0.8 percent from those reported in 1987-88.

In the ten years from 1979-80 to 1988-89, the public school minority population changed. In 1979-80, White, (Non-Hispanic) enrollments accounted for 85.4 percent of the pupils enrolled in public schools and in 1988-89 they accounted for only 83.0 percent. The fastest growing racial group is Asian/Pacific Islander. In 1979-80, they comprised 0.6 percent of the public school population and in 1988-89, their numbers had more than doubled to 24,265 (1.5 percent). In the same period, Hispanics have grown from 1.5 percent of the population to 2.5 percent with 40,749 pupils enrolled. Black (Non-Hispanic) and American Indian/Alaskan Native have maintained their respective proportions of the public school pupil population. In 1988-89 American Indian/Alaskan Natives had 1,238 pupils enrolled, for less than 0.1 percent, and Blacks (Non-Hispanic) had an enrollment of 215,406 or 13.0 percent.

TABLE 1

PUBLIC AND NONPUBLIC ENROLLMENTS BY COUNTY
1988-89

County	Total			Elementary			Secondary		
	Total	Public	Nonpublic	Total	Public	Nonpublic	Total	Public	Nonpublic
TOTAL	2 008 399	1 658 335	350 064	1 157 089	896 213	260 876	851 310	762 122	89 188
Adams	13 815	12 191	1 624	7 761	6 774	987	6 054	5 417	637
Allegheny	202 842	163 405	39 437	118 030	86 221	31 809	84 812	77 184	7 628
Armstrong	14 065	13 281	784	7 691	6 965	726	6 374	6 316	58
Beaver	31 650	29 131	2 519	17 448	15 402	2 046	14 202	13 729	473
Bedford	9 044	8 756	288	4 848	4 598	250	4 196	4 158	38
Berks	57 971	51 657	6 314	33 359	28 960	4 399	24 612	22 697	1 915
Blair	23 810	20 936	2 874	13 351	11 058	2 293	10 459	9 878	581
Bradford	13 054	12 512	542	7 381	6 859	522	5 673	5 653	20
Bucks	96 301	75 558	20 743	55 519	40 733	14 786	40 782	34 825	5 957
Butler	25 595	23 960	1 635	14 293	12 744	1 549	11 302	11 216	86
Cambria	28 263	23 687	4 576	15 594	11 849	3 745	12 669	11 838	831
Cameron	1 149	1 149		600	600	0	549	549	0
Carbon	9 072	8 057	1 015	5 251	4 243	1 008	3 821	3 814	7
Centre	13 676	12 781	895	7 602	6 769	833	6 074	6 012	62
Chester	62 622	52 090	10 532	35 961	28 568	7 393	26 661	23 522	3 139
Clarion	9 079	8 642	437	4 977	4 571	406	4 102	4 071	31
Clearfield	17 810	16 767	1 043	9 678	9 064	614	8 132	7 703	429
Clinton	6 278	5 875	403	3 507	3 117	390	2 771	2 758	13
Columbia	11 783	11 181	602	6 403	5 882	521	5 380	5 299	81
Crawford	13 364	12 395	969	7 462	6 560	902	5 902	5 835	67
Cumberland	36 886	33 549	3 337	20 156	17 719	2 437	16 730	15 830	900
Dauphin	40 812	34 806	6 006	23 628	19 391	4 237	17 184	15 415	1 769
Delaware	86 377	57 941	28 436	51 862	32 579	19 283	34 515	25 362	9 153
Elk	6 544	4 867	1 677	3 702	2 344	1 358	2 842	2 523	319
Erie	53 222	42 714	10 508	31 064	22 949	8 115	22 158	19 765	2 393
Fayette	25 910	23 412	2 498	14 236	12 227	2 009	11 674	11 185	489
Forest	970	833	137	434	423	11	536	410	126
Franklin	20 325	18 348	1 977	10 653	9 452	1 201	9 672	8 896	776
Fulton	2 700	2 682	18	1 475	1 462	13	1 225	1 220	5
Greene	7 521	7 424	97	3 968	3 899	69	3 553	3 525	28
Huntingdon	7 186	6 953	233	3 760	3 693	67	3 426	3 260	166
Indiana	15 420	14 482	938	8 343	7 707	636	7 077	6 775	302
Jefferson	8 070	7 799	271	4 406	4 135	271	3 664	3 664	0
Juniata	3 693	3 430	263	2 085	1 834	251	1 608	1 596	12
Lackawanna	34 885	27 654	7 231	19 719	14 624	5 095	15 166	13 030	2 136
Lancaster	72 864	58 571	14 293	44 327	32 819	11 508	28 537	25 752	2 785
Lawrence	16 977	15 990	987	9 573	8 703	870	7 404	7 287	117
Lebanon	19 304	17 351	1 953	10 844	9 343	1 501	8 460	8 008	452
Lehigh	43 546	38 351	5 195	24 989	20 937	4 052	18 557	17 414	1 143
Luzerne	50 937	41 510	9 427	28 745	21 628	7 117	22 192	19 882	2 310
Lycoming	21 474	20 203	1 271	12 070	11 132	938	9 404	9 071	333
McKean	9 053	8 509	544	4 828	4 432	396	4 225	4 077	148
Mercer	21 022	19 092	1 930	11 401	9 968	1 433	9 621	9 124	497
Mifflin	7 278	6 295	983	4 211	3 328	883	3 067	2 967	100
Monroe	16 640	15 608	1 032	9 391	8 647	744	7 249	6 961	288
Montgomery	111 877	76 368	35 509	65 460	41 422	24 038	46 417	34 946	11 471
Montour	2 804	2 498	306	1 669	1 424	245	1 135	1 074	61
Northampton	43 080	36 735	6 345	24 904	20 054	4 850	18 176	16 681	1 495
Northumberland	17 034	14 639	2 395	9 457	7 650	1 807	7 577	6 989	588
Perry	7 995	7 582	413	4 403	4 147	256	3 592	3 435	157
Philadelphia	276 171	191 141	85 030	171 819	109 127	62 693	104 351	82 014	22 337
Pike	2 705	2 684	21	1 586	1 565	21	1 119	1 119	0
Potter	3 594	3 509	85	1 978	1 909	69	1 616	1 600	16
Schuylkill	24 777	20 890	3 887	13 646	10 722	2 924	11 131	10 168	963
Snyder	5 984	5 459	525	3 352	2 891	461	2 632	2 568	64
Somerset	14 653	13 814	839	8 089	7 418	671	6 564	6 396	168
Sullivan	1 084	1 039	45	591	568	23	493	471	22
Susquehanna	8 521	8 456	65	4 856	4 797	59	3 665	3 659	6
Tioga	7 547	7 189	358	4 124	3 874	250	3 423	3 315	108
Union	4 611	4 103	508	2 687	2 232	455	1 924	1 871	53
Venango	13 017	12 115	902	7 278	6 617	661	5 739	5 498	241
Warren	7 750	7 351	399	4 306	3 964	342	3 444	3 387	57
Washington	33 973	31 315	2 658	18 377	16 129	2 248	15 596	15 186	410
Wayne	8 154	7 662	492	4 725	4 342	383	3 429	3 320	109
Westmoreland	63 111	56 928	6 183	34 353	29 075	5 278	28 758	27 853	905
Wyoming	5 136	5 088	48	2 781	2 750	31	2 355	2 338	17
York	53 962	49 385	4 577	30 061	26 624	3 437	23 901	22 761	1 140

FIGURE 1

PERCENT OF CHANGE IN PUBLIC AND NONPUBLIC ENROLLMENT
1980-81 THROUGH 1988-89

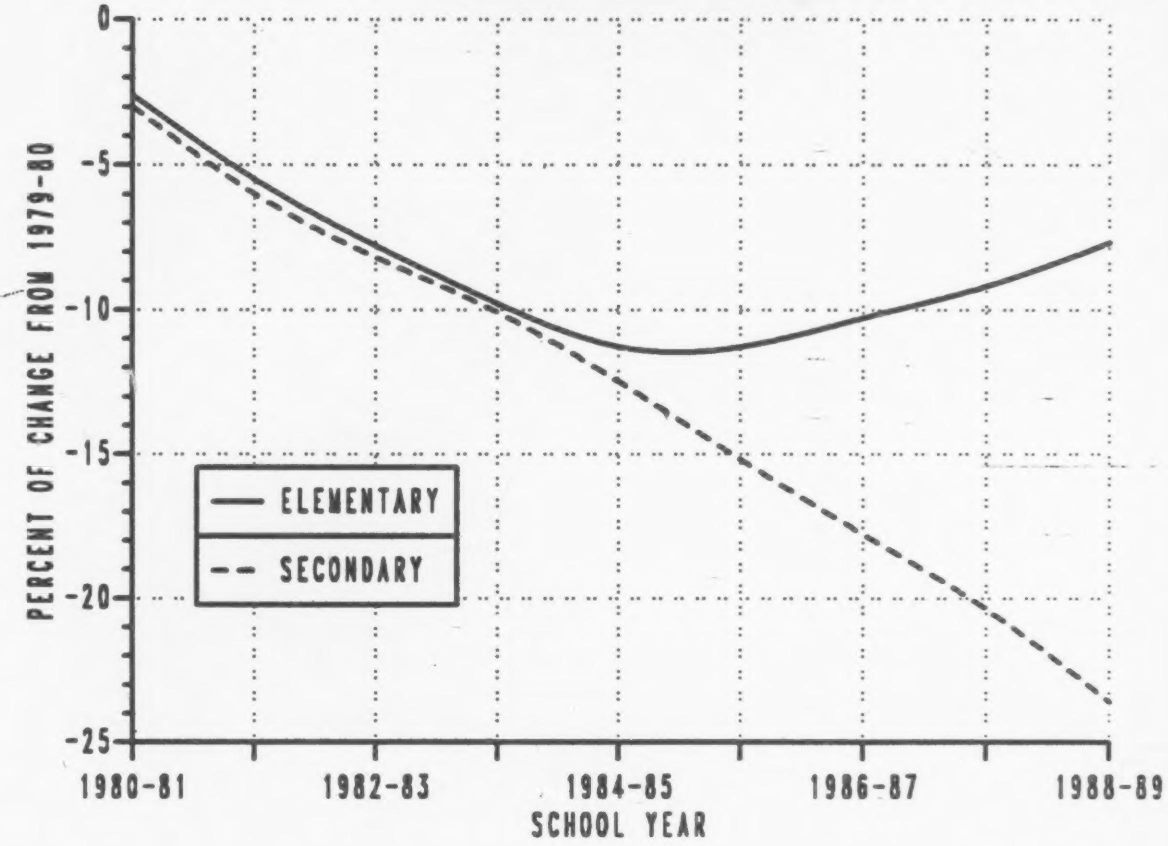

TABLE 2

PUBLIC AND NONPUBLIC ENROLLMENTS
1979-80 THROUGH 1988-89

Year	Total			Elementary			Secondary		
	Total	Public	Nonpublic	Total	Public	Nonpublic	Total	Public	Nonpublic
1979-80	2 368 756	1 968 801	399 955	1 253 839	968 325	285 514	1 114 917	1 000 476	114 441
1980-81	2 301 694	1 909 292	392 402	1 220 706	940 387	280 319	1 080 988	968 905	112 083
1981-82	2 233 114	1 839 015	394 099	1 184 699	903 342	281 357	1 048 415	935 673	112 742
1982-83	2 179 135	1 783 969	395 166	1 155 994	872 629	283 365	1 023 141	911 340	111 801
1983-84	2 134 185	1 737 952	396 233	1 131 517	846 145	285 372	1 002 668	891 807	110 861
1984-85	2 087 900	1 701 880	386 020	1 112 232	833 996	278 236	975 668	867 884	107 784
1985-86	2 057 619	1 683 221	374 398	1 111 960	841 419	270 541	945 659	841 802	103 857
1986-87	2 040 840	1 674 161	366 679	1 124 203	856 962	267 241	916 637	817 199	99 438
1987-88	2 025 555	1 668 542	357 013	1 138 363	874 784	263 579	887 192	793 758	93 434
1988-89	2 008 399	1 658 335	350 064	1 157 089	896 213	260 876	851 310	762 122	89 188

TABLE 3

PUBLIC AND NONPUBLIC ENROLLMENTS BY GRADE
1988-89

Grade	Total	Public	Nonpublic
TOTAL	2 008 399	1 658 335	350 064
Kindergarten	157 782	124 878	32 904
Transitional	2 723	2 723	-
First	169 590	135 560	34 030
Second	158 652	126 740	31 912
Third	153 634	123 083	30 551
Fourth	148 898	119 127	29 771
Fifth	143 330	115 430	27 900
Sixth	142 575	115 595	26 980
Seventh	142 002	117 309	24 693
Eighth	142 101	117 620	24 481
Ninth	147 240	127 364	19 876
Tenth	144 353	124 817	19 536
Eleventh	143 781	123 685	20 096
Twelfth	145 721	124 541	21 180
Ungraded	65 728	59 863	5 865
Postgraduate	289	-	289

NOTE: A dash (-) indicates "not applicable."

TABLE 4

PUBLIC ELEMENTARY AND SECONDARY ENROLLMENTS BY RACE BY COUNTY 1988-89

County	Total		American Indian/ Alaskan Native		Asian/ Pacific Islander		Black (Non-Hispanic)		Hispanic		White (Non-Hispanic)	
	Elementary	Secondary	Elementary	Secondary	Elementary	Secondary	Elementary	Secondary	Elementary	Secondary	Elementary	Secondary
TOTAL	896 213	762 122	573	665	13 066	11 199	122 915	92 491	24 577	16 172	735 082	641 595
Adams	6 774	5 417	0	1	42	33	128	117	173	84	6 431	5 182
Allegheny	86 221	77 184	48	51	976	800	18 120	13 878	232	182	66 845	62 273
Armstrong	6 965	6 316	4	3	12	13	53	51	5	9	6 891	6 240
Beaver	15 402	13 729	11	18	39	26	1 388	1 198	25	34	13 939	12 453
Bedford	4 598	4 158	0	0	7	15	24	24	8	6	4 559	4 113
Berks	28 960	22 697	13	14	284	256	1 212	878	2 406	1 423	25 045	20 126
Blair	11 058	9 878	2	1	54	66	134	114	19	19	10 849	9 678
Bradford	6 859	5 653	1	4	16	14	21	10	9	12	6 812	5 613
Bucks	40 733	34 825	31	36	798	602	1 882	1 478	660	528	37 362	32 181
Butler	12 744	11 216	1	2	60	45	92	69	31	41	12 560	11 059
Cambria	11 849	11 838	4	4	35	23	491	358	21	27	11 298	11 426
Cameron	600	549	1	2	2	0	1	1	0	2	596	544
Carbon	4 243	3 814	1	0	12	18	8	7	25	38	4 197	3 751
Centre	6 769	6 012	10	5	194	79	107	74	37	33	6 421	5 821
Chester	28 568	23 522	8	12	395	403	2 727	2 132	725	436	24 713	20 539
Clarion	4 571	4 071	1	2	18	37	18	9	10	5	4 524	4 018
Clearfield	9 064	7 703	0	2	29	40	15	18	3	8	9 017	7 635
Clinton	3 117	2 758	0	0	3	11	6	5	5	2	3 103	2 740
Columbia	5 882	5 299	2	5	30	31	45	18	21	21	5 784	5 224
Crawford	6 560	5 835	0	12	24	33	147	143	10	8	6 379	5 639
Cumberland	17 719	15 830	8	11	298	272	312	217	70	73	17 031	15 257
Dauphin	19 391	15 415	20	12	281	260	4 941	3 456	751	373	13 398	11 314
Delaware	32 579	25 362	24	20	890	746	6 017	4 267	430	221	25 218	20 108
Elk	2 344	2 523	0	1	16	16	2	5	1	0	2 325	2 501
Erie	22 949	19 765	16	37	144	100	1 953	1 603	396	244	20 440	17 781
Fayette	12 227	11 185	0	4	20	14	693	499	5	120	11 509	10 548
Forest	423	410	0	0	0	0	0	4	0	1	423	405
Franklin	9 452	8 896	6	10	61	64	353	254	98	60	8 934	8 508
Fulton	1 462	1 220	0	0	1	1	16	17	1	0	1 444	1 202
Greene	3 899	3 525	3	1	15	4	21	20	2	6	3 858	3 494
Huntington	3 693	3 260	2	0	6	3	83	54	2	4	3 600	3 199
Indiana	7 707	6 775	3	4	35	38	77	69	7	18	7 585	6 646
Jefferson	4 135	3 664	0	0	17	11	9	2	1	3	4 108	3 648
Juniata	1 834	1 596	0	1	14	10	6	3	1	4	1 813	1 578
Lackawanna	14 624	13 030	75	10	87	126	231	119	42	29	14 189	12 746
Lancaster	32 819	25 752	19	14	594	541	1 345	929	2 034	1 414	28 827	22 854
Lawrence	8 703	7 287	1	0	38	38	449	367	16	12	8 199	6 870
Lebanon	9 343	8 008	7	5	118	118	84	42	345	253	8 789	7 590
Lehigh	20 937	17 414	11	11	379	271	848	538	2 087	1 203	17 612	15 391
Luzerne	21 628	19 882	9	23	105	179	303	102	73	49	21 138	19 529
Lycoming	11 132	9 071	3	7	43	44	316	182	11	11	10 759	8 827
McKean	4 432	4 077	7	16	21	22	14	11	6	3	4 384	4 025
Mercer	9 968	9 124	3	6	69	44	709	742	27	20	9 160	8 312
Mifflin	3 328	2 967	11	4	23	10	24	11	11	2	3 259	2 940
Monroe	8 647	6 961	8	20	136	65	244	136	128	139	8 131	6 601
Montgomery	41 422	34 946	23	34	1 631	1 464	3 786	3 176	485	392	35 497	29 880
Montour	1 424	1 074	0	3	21	13	7	5	5	1	1 391	1 052
Northampton	20 054	16 681	7	6	231	189	816	606	1 365	925	17 635	14 955
Northumberland	7 650	6 989	7	7	13	15	55	20	36	38	7 539	6 909
Perry	4 147	3 435	0	0	9	9	19	9	8	12	4 111	3 405
Philadelphia	109 127	82 014	111	105	4 071	3 413	69 096	51 682	10 820	6 992	25 029	19 822
Pike	1 565	1 119	7	9	10	3	17	9	28	41	1 503	1 057
Potter	1 909	1 600	1	2	3	8	4	3	5	2	1 896	1 585
Schuylkill	10 722	10 168	3	5	59	36	77	44	14	11	10 569	10 072
Snyder	2 891	2 568	0	3	10	15	4	2	4	3	2 873	2 545
Somerset	7 418	6 396	1	0	21	23	11	2	3	5	7 382	6 366
Sullivan	568	471	0	0	1	0	2	0	0	1	565	470
Susquehanna	4 797	3 659	0	1	14	6	17	12	12	7	4 754	3 633
Tioga	3 874	3 315	3	0	8	8	27	20	3	3	3 833	3 284
Union	2 232	1 871	0	3	11	11	20	17	10	18	2 191	1 822
Venango	6 617	5 498	7	2	23	24	37	43	19	14	6 531	5 415
Warren	3 964	3 387	1	24	16	13	6	8	0	8	3 941	3 334
Washington	16 129	15 186	5	19	66	49	766	715	42	38	15 250	14 365
Wayne	4 342	3 320	1	1	3	9	13	11	19	21	4 306	3 278
Westmoreland	29 075	27 853	8	24	174	136	943	706	53	53	27 897	26 934
Wyoming	2 750	2 338	1	0	3	7	6	14	3	2	2 737	2 315
York	26 624	22 761	13	28	227	206	1 517	1 196	673	405	24 194	20 968

TABLE 5

PUBLIC SECONDARY ENROLLMENTS IN SELECTED SUBJECTS, 1988-89

Subject	Enrollment
ARTS & HUMANITIES	
Advanced Music Theorum	2 466
Aestetics	496
Arts Criticism	934
Arts History	5 140
Choral Music	89 962
Dance	1 693
Drama	9 521
Film Studies	2 229
General Art	263 148
General Music	202 548
Humanities	21 118
Instrumental Music	83 653
Philosophy	2 268
Photography	11 971
Studio Art	21 958
BUSINESS	
Accounting I	29 985
Accounting II	8 857
Business Data Processing	12 044
Business English	11 791
Business Law	11 160
Business Mathematics	22 041
Intro to Business	21 558
Shorthand I	6 378
Shorthand II	2 524
Typing I	68 157
Typing II	14 606
COMPUTER SCIENCE	
Computer Literacy	121 110
Computer Programming I	15 927
Computer Programming II	4 721
Computer Science I	22 408
Computer Science II	5 203
DRIVER EDUCATION	
Driver Education	70 051
ENGLISH	
English	654 243
Literature	90 534
Speech	30 503
Writing	53 835
ENVIRONMENTAL EDUCATION	
Environmental Education	31 905
FORIEGN LANGUAGES	
Foreign Language Exploration	28 875
French I	30 294
French II	20 070
French III	10 861
French IV	5 159
French V and VI	1 098
German I	12 461
German II	8 319
German III	4 616
German IV	2 380
German V and VI	376
Italian I	828
Italian II	495
Italian III	184
ItalIAn IV and V	111
Latin I	7 442
Latin II	3 159
Latin III	1 053
Latin IV	478
Russian I	267
Russian II	125
Russian III	56
Russian IV and V	39
Spanish for Spanish Speakers	127
Spanish I	57 025
Spanish II	35 396
Spanish III	16 370
Spanish IV	6 968
Spanish V and VI	1 345
HEALTH	
Health	274 408
HOME ECONOMICS	
Home Economics (non-voc)	252 510
INDUSTRIAL ARTS	
Industrial Arts	283 377
MATHEMATICS	
Advanced Placement Calculus	3 832
Algebra I	104 895
Algebra II	67 193
Algebra III	10 440
Analytic Geometry	9 243
Arithmetic	78 749
Calculus	10 326
Calculus & Analytic Geometry	3 887
Combined Plane & Solid Geometry	24 549
Consumer Mathematics	15 655
Fundamentals of Mathematics	38 292
General Mathematics I	110 529
General Mathematics II	37 366
General Mathematics III	14 731
Intro to College Mathematics	6 001
Plane Geometry	41 254
Probability and Statistics	3 426
Solid Geometry	1 357
Trigonometry	32 663
PHYSICAL EDUCATION	
Adapted Physical Education	14 134
Physical Education	682 198
READING	
Developmental Reading	166 432
Remedial Reading	51 084

TABLE 5

PUBLIC SECONDARY ENROLLMENTS IN SELECTED SUBJECTS--Concluded
1988-89

Subject	Enrollment
SCIENCE	
Biology I	111 049
Biology II	16 831
Chemistry I	63 518
Chemistry II	7 199
Earth and Space Science I	81 366
Earth and Space Science II	6 093
General Science (Senior High)	36 421
General Science (Junior High)	98 238
Life Science	72 438
Physical Science	87 314
Physics I	34 184
Physics II	2 145
SOCIAL STUDIES	
Anthropology	4 245
Economics	54 674
Geography	88 672
Government or Civics	112 698
Pennsylvania History	40 972
Psychology	33 703
Sociology	29 854
U.S. History/Culture	240 432
World Culture	187 930

TABLE 6

PUBLIC SECONDARY ENROLLMENTS
BY SECONDARY SCHOOL CLASSIFICATION
1988-89

Classification	Number of Schools	Secondary Enrollments
TOTAL	1 289	762 122
Three-year JHS (7-9)	103	69 024
Six-year JSHS (7-12)	195	124 649
Three-year SHS (10-12)	83	83 345
Four-year HS (9-12)	276	268 659
Two-year JHS (7-8)	44	21 580
Two-year HS (9-10)	10	8 640
Two-year HS (11-12)	7	7 208
Vo-Tech (Full-time)	14	12 360
Vo-Tech (Part-time)*	71	40 589
Special Education	9	2 006
Middle School (Gr. 5-8)	60	21 393
Middle School (Gr. 6-8)	212	83 465
Middle School (Other)	29	10 600
Other Schools	176	49 193

NOTE: An (*) indicates that the enrollment for these schools are duplicated enrollments . ported by the sending schools and, therefore, not included in the total.

TABLE 7

PUBLIC AND NONPUBLIC SCHOOLS
1979-80 THROUGH 1988-89

Year	Total	Elementary	Secondary	Elementary/ Secondary
1979-80				
Public	3 805	2 439	974	392
Nonpublic	1 779	1 289	183	307
1980-81				
Public	3 734	2 368	952	414
Nonpublic	1 757	1 288	176	293
1981-82				
Public	3 616	2 261	932	423
Nonpublic	1 815	1 304	179	332
1982-83				
Public	3 507	2 162	903	442
Nonpublic	2 039	1 488	193	358
1983-84				
Public	3 487	2 108	901	478
Nonpublic	2 105	1 522	184	399
1984-85				
Public	3 432	2 056	895	481
Nonpublic	2 163	1 569	187	407
1985-86				
Public	3 410	2 037	887	486
Nonpublic	2 202	1 632	193	377
1986-87				
Public	3 397	2 027	881	489
Nonpublic	2 217	1 652	183	382
1987-88				
Public	3 313	2 013	865	435
Nonpublic	2 238	1 671	188	379
1988-89				
Public	3 282	1 993	831	458
Nonpublic	2 235	1 694	179	362

APPENDIX A

GLOSSARY

ELEMENTARY/SECONDARY SCHOOL - a school which includes both elementary-level and secondary-level pupils.

FULL-TIME AREA VOCATIONAL-TECHNICAL SCHOOL - a school in which pupils from participating school districts attend a centrally located technical school organized, established and operated as a complete technical high school which provides the pupil with the total educational program of shop or laboratory and general instruction.

MIDDLE SCHOOL - an elementary/secondary school with at least three consecutive grades from 5 through 8 and other schools approved as a middle school.

PART-TIME AREA VOCATIONAL-TECHNICAL SCHOOL - a school in which pupils from participating school districts attend a centrally located shop-laboratory center half of the school time for the practical shop or laboratory instruction program and remain in their respective resident high school half-time for the general education instruction program.

POSTGRADUATE - a high school graduate that returns to high school and enrolls in regular high school classes. SHOULD NOT INCLUDE ADULT EDUCATION.

RACIAL/ETHNIC CATEGORIES:

AMERICAN INDIAN/ALASKAN NATIVE - any of the original peoples of North America and who maintain cultural identification through tribal affiliation or community recognition.

ASIAN/PACIFIC ISLANDER - all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent or the Pacific Islands. This area includes for example, China, Japan, Korea, India, the Philippine Islands and Samoa.

BLACK (NON-HISPANIC) - all persons having origins in any of the black racial groups of Africa.

HISPANIC - all persons of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race.

WHITE (NON-HISPANIC) - all persons having origins in any of the original peoples of Europe, North Africa or the Middle East.

SCHOOL - a division of a school system comprised of one or more grade groups organized as one unit, usually under the direction of a principal or a head teacher. One building may house more than one school or one school may occupy all or part of one or more buildings.

APPENDIX B

SOURCES

1. Public School Enrollment Report (PDE-4035)
2. Nonpublic School Enrollment Report (PDE-4036)
3. Public Secondary School Report (PDE-4038)

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Public Schools

School Buildings
1988-89

DDS
Data Series

Pennsylvania Department of Education 1989

Public Schools

School Buildings
1988-89

This is one in a series of publications containing statistical summaries related to basic education, postsecondary education, and vocational education in Pennsylvania. For more detailed data, contact the Division of Data Services at (717) 787-2644.

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July 1989

Pennsylvania Department of Education
333 Market Street
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HIGHLIGHTS

- In the fall of 1988, nine new buildings were opened, 20 buildings were reactivated, and 61 buildings were deactivated.

- Of the 3,260 buildings in use, 40.6 percent were assigned an excellent rating and housed 739,951 or 44.2 percent of the total pupils.

- Of the buildings currently in use, 2,015 or 64.6 percent were constructed since 1950.

- The primary energy source of heat in 36.5 percent of the buildings was gas; 28.6 percent oil; 10.2 percent electricity; 7.6 percent coal; and 17.1 percent a combination of sources.

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OVERVIEW

The total number of public school buildings in Pennsylvania at the beginning of 1988-89 was 3,260, a 15.1 percent decrease from the 3,842 school buildings in 1979-80. During this same ten-year period, the number of pupils housed showed a 17.1 percent decrease, falling from 2,020,664 in 1979-80 to 1,675,321 in 1988-89. However, there was a 0.1 percent increase in 1988-89 from the 1,674,334 pupils housed in 1987-88. Of the 3,260 buildings reported in 1988-89, 2,001 or 61.4 percent were elementary, 831 or 25.5 percent were secondary, and 428 or 13.1 percent were elementary/secondary.

It should be noted that the term for "pupils housed" is a measure of space utilization rather than an attempt to provide an enrollment count. Pupils who attended part-time area vocational-technical schools, for example, were counted as "housed" in the buildings of both the sending schools and the AVTS. On the other hand, those students who were housed in schools that occupy either rented or donated facilities that are not publicly owned, were not included in the count of pupils housed.

At the beginning of 1988-89 there were 29 new or reactivated buildings placed in operation, while the number of deactivated buildings totaled 61. The trend for the period from 1979-89 to 1988-89 indicated that for every seven buildings deactivated, one was later re-opened for student use. Some of the buildings have been closed temporarily for the purpose of extensive renovation, while some buildings that were re-opened were used on a short-term basis to satisfy a need for provisional housing space.

The decade of the '50s showed the greatest amount of construction, with a total of 881 buildings constructed during that period still in use. These facilities, generally rated as being in good or excellent condition, housed over 25 percent of all pupils.

Within the 3,260 buildings, there were 94,009 instruction rooms used by the 1,675,321 pupils reported. Of these 94,009 rooms, 42.1 percent or 39,605 were in elementary buildings, 40.7 percent or 38,248 were in secondary buildings, and 17.2 percent or 16,156 were in elementary/secondary buildings.

With a system revision in 1988-89, the rating classification of the buildings was changed to either excellent, good, fair, or poor, with specific reasons being utilized to indicate a poor rating. Classifications are determined by the chief school administrator. Of the 3,260 buildings, 1,325 or 40.6 percent were listed as excellent, 1,514 or 46.4 percent were listed as good, 364 or 11.2 percent were listed as fair, and 57 or 1.7 percent were listed as poor.

Because of the concern for conservation and use of energy, a statewide survey was first taken in the fall of 1977 to determine the primary energy source for heating buildings. This survey showed that the primary source was oil with 39.5 percent, followed by gas with 36.4 percent, electricity with 10.1 percent, coal with 8.2 percent, and a combination of sources with 5.8 percent. The current update reveals that gas (36.5 percent) is now the primary source followed by oil (28.6 percent), a combination of sources (17.1 percent), electricity (10.2 percent), and coal (7.6 percent). By comparing these two years of data, the sources of gas, coal, and electricity are being utilized at about the same level as when the first survey was conducted. However, the education agencies are utilizing oil at a lesser degree, while increasing the use of a combination of sources.

TABLE 1

SELECTED DATA ON PUBLIC SCHOOL BUILDINGS
1979-80 THROUGH 1988-89

Year	Total Buildings	New Buildings	Reactivated Buildings	Closed Buildings
1979-80	3 842	24	15	141
1980-81	3 759	17	16	116
1981-82	3 634	13	9	147
1982-83	3 510	9	13	146
1983-84	3 430	5	10	95
1984-85	3 362	5	13	86
1985-86	3 328	3	12	49
1986-87	3 310	1	11	30
1987-88	3 292	2	11	31
1988-89	3 260	9	20	61

TABLE 2

PUBLIC SCHOOL BUILDINGS BY NUMBER OF INSTRUCTION ROOMS
1988-89

INSTRUCTION ROOMS	TOTAL		ELEMENTARY		SECONDARY		ELEMENTARY/SECONDARY	
	BUILDINGS	PUPILS HOUSED	BUILDINGS	PUPILS HOUSED	BUILDINGS	PUPILS HOUSED	BUILDINGS	PUPILS HOUSED
Total	3 260	1 675 321	2 001	771 796	831	645 490	428	258 035
0	9	386	1	145	6	0	2	241
1	6	112	4	71	2	41	0	0
2 - 3	19	1 220	10	656	6	295	3	269
4 - 6	110	13 622	97	11 457	11	1 402	2	763
7 - 13	503	103 914	471	98 003	24	4 585	8	1 326
14 - 20	599	198 060	542	183 295	30	8 416	27	6 349
21 - 39	1 302	686 411	791	414 217	289	155 282	222	116 912
40 - 59	463	359 734	81	59 585	257	208 197	125	91 952
60 - 79	167	181 023	4	4 367	133	147 476	30	29 180
80 or More	82	130 839	0	0	73	119 796	9	11 043

TABLE 3

PUBLIC SCHOOL BUILDINGS BY NUMBER OF STORIES
1988-89

	TOTAL		ELEMENTARY		SECONDARY		ELEMENTARY/SECONDARY	
	BUILDINGS	PUPILS HOUSED	BUILDINGS	PUPILS HOUSED	BUILDINGS	PUPILS HOUSED	BUILDINGS	PUPILS HOUSED
Total	3 260	1 675 321	2 001	771 796	831	645 490	428	258 035
One Story	1 294	508 924	989	338 329	213	127 482	92	43 113
Two Stories	1 383	749 724	756	302 354	422	318 485	205	128 885
Three or More Stories	583	416 673	256	131 113	196	199 523	131	86 037

FIGURE 1
PERCENTAGE DISTRIBUTION OF PUBLIC SCHOOL BUILDINGS
BY PERIOD OF CONSTRUCTION, 1988-89

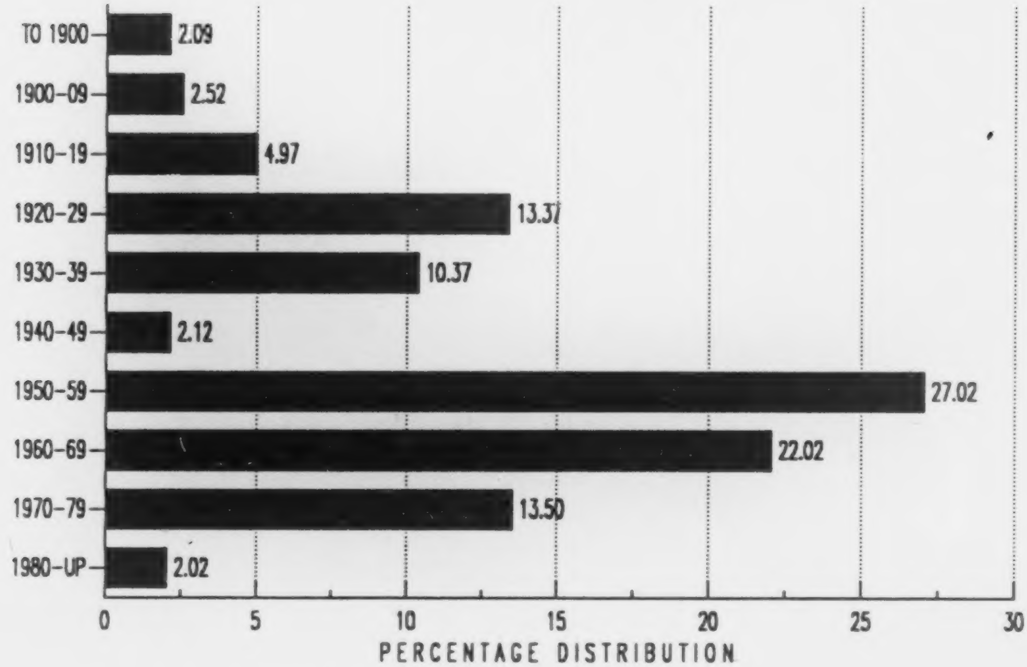

FIGURE 2
DISTRIBUTION OF PUBLIC SCHOOL BUILDINGS
BY PRIMARY ENERGY SOURCE OF HEAT, 1988-89

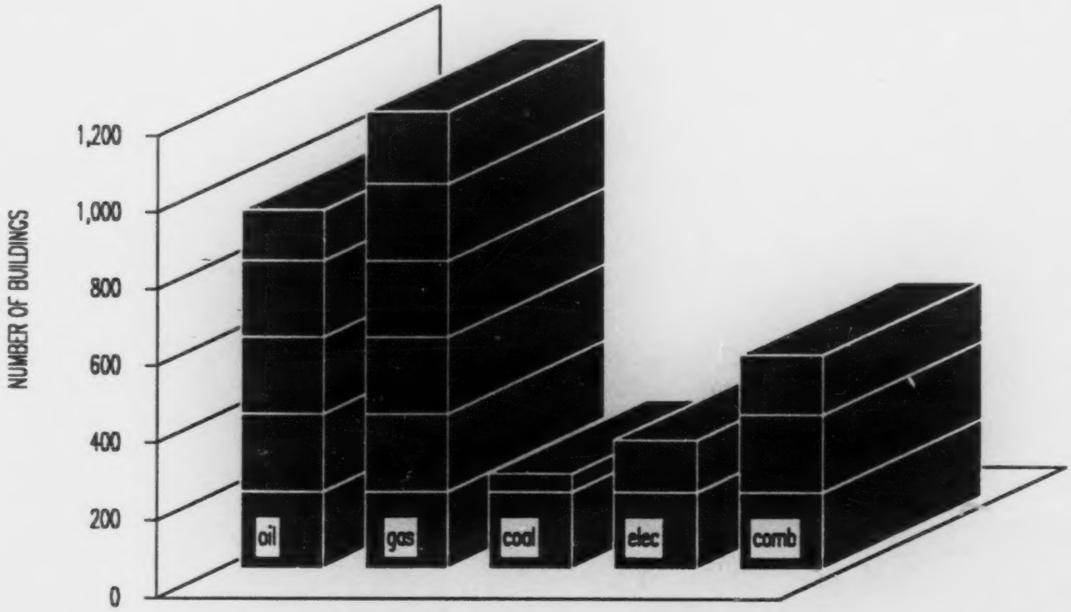

TABLE 4

PHYSICAL CONDITION OF PUBLIC SCHOOL BUILDINGS BY PERIOD OF CONSTRUCTION
1988-89

	TOTAL		ELEMENTARY		SECONDARY		ELEMENTARY/SECONDARY	
	BUILDINGS	PUPILS HOUSED	BUILDINGS	PUPILS HOUSED	BUILDINGS	PUPILS HOUSED	BUILDINGS	PUPILS HOUSED
State Total	3 260	1 675 321	2 001	771 796	831	645 490	428	258 035
Excellent	1 325	739 951	757	320 974	385	302 979	183	115 998
Good	1 514	781 195	939	359 868	367	294 814	208	126 513
Fair	364	133 994	267	81 620	65	38 762	32	13 612
Poor	57	20 181	38	9 334	14	8 935	5	1 912
Prior to 1900	68	22 918	53	15 881	5	2 346	10	4 691
Excellent	8	3 145	7	2 489	0	0	1	656
Good	23	7 734	18	5 124	2	1 140	3	1 470
Fair	29	9 906	23	7 290	2	730	4	1 886
Poor	8	2 133	5	978	1	476	2	679
1900 - 1909	82	35 429	55	20 758	16	9 051	11	5 620
Excellent	4	2 790	2	587	2	2 203	0	0
Good	38	16 181	26	9 513	7	3 904	5	2 764
Fair	37	15 840	26	10 336	5	2 648	6	2 856
Poor	3	618	1	322	2	296	0	0
1910 - 1919	162	76 807	109	40 619	32	24 668	21	11 520
Excellent	34	18 333	21	9 303	8	7 134	5	1 896
Good	76	41 030	51	20 924	15	13 188	10	6 918
Fair	44	14 524	31	8 902	7	2 916	6	2 706
Poor	8	2 920	6	1 490	2	1 430	0	0
1920 - 1929	436	215 942	277	97 985	85	72 914	74	45 043
Excellent	103	58 019	68	27 318	21	20 039	14	10 662
Good	236	130 376	131	50 687	53	47 196	52	32 493
Fair	81	22 188	66	16 467	8	4 138	7	1 583
Poor	16	5 359	12	3 513	3	1 541	1	305
1930 - 1939	338	151 303	223	76 822	68	49 046	47	25 435
Excellent	91	44 719	58	22 260	19	14 030	14	8 429
Good	177	82 342	111	38 443	37	28 220	29	15 679
Fair	58	19 841	44	13 746	10	4 768	4	1 327
Poor	12	4 401	10	2 373	2	2 028	0	0

TABLE 4

PHYSICAL CONDITION OF PUBLIC SCHOOL BUILDINGS BY PERIOD OF CONSTRUCTION--Concluded
1988-89

	TOTAL		ELEMENTARY		SECONDARY		ELEMENTARY/SECONDARY	
	BUILDINGS	PUPILS HOUSED	BUILDINGS	PUPILS HOUSED	BUILDINGS	PUPILS HOUSED	BUILDINGS	PUPILS HOUSED
1940 - 1949	69	30 538	54	19 306	10	8 131	5	3 101
Excellent	22	8 249	19	6 955	3	1 294	0	0
Good	35	18 701	26	10 639	4	4 961	5	3 101
Fair	10	3 416	7	1 540	3	1 876	0	0
Poor	2	172	2	172	0	0	0	0
1950 - 1959	881	427 257	587	203 771	218	179 053	76	44 433
Excellent	336	166 216	230	83 757	80	66 816	26	15 643
Good	459	222 046	300	102 761	116	94 677	43	24 608
Fair	79	35 035	55	16 767	19	15 014	5	3 254
Poor	7	3 960	2	486	3	2 546	2	928
1960 - 1969	718	386 828	414	168 765	224	172 007	80	46 056
Excellent	354	201 505	188	78 979	122	97 614	44	24 912
Good	343	174 799	214	85 502	93	68 153	36	21 144
Fair	21	10 524	12	4 284	9	6 240	0	0
Poor	0	0	0	0	0	0	0	0
1970 - 1979	440	295 872	191	108 162	152	119 555	97	68 155
Excellent	309	205 101	128	70 152	109	85 130	72	49 819
Good	125	87 433	60	35 722	40	33 375	25	18 336
Fair	5	2 720	3	2 288	2	432	0	0
Poor	1	618	0	0	1	618	0	0
1980 - Up	66	32 427	38	19 727	21	8 719	7	3 981
Excellent	64	31 874	36	19 174	21	8 719	7	3 981
Good	2	553	2	553	0	0	0	0
Fair	0	0	0	0	0	0	0	0
Poor	0	0	0	0	0	0	0	0

TABLE 5

SELECTED INSTRUCTION AND GENERAL USE ROOMS
1988-89

	TOTAL		ELEMENTARY		SECONDARY		ELEMENTARY/SECONDARY	
	BUILDINGS	ROOMS	BUILDINGS	ROOMS	BUILDINGS	ROOMS	BUILDINGS	ROOMS
Instruction Rooms								
Art	2 171	2 944	1 082	1 106	717	1 250	372	588
Business	1 465	4 784	434	453	733	3 751	298	580
Homemaking	1 103	2 386	31	45	713	1 659	359	682
Industrial Arts/Vo.Ag.	1 240	5 207	74	128	795	4 264	371	815
Kindergarten	1 825	3 336	1 715	3 140	5	11	105	185
Music	2 133	3 175	1 056	1 207	702	1 303	375	665
Regular Classroom	3 186	59 205	1 984	30 102	795	19 276	407	9 827
Science	1 179	6 026	120	179	726	4 544	333	1 303
Special Education Room	2 296	6 946	1 302	3 245	659	2 190	335	1 511
General Use Rooms								
Auditorium	1 185	1 204	290	297	637	643	258	264
Cafeteria	1 961	2 083	860	888	743	814	358	381
Group Seminar/Instruction	1 020	2 389	525	1 106	350	919	145	364
Health	3 008	3 162	1 826	1 868	772	854	410	440
Library	2 950	3 002	1 811	1 824	737	750	402	428
Multipurpose	1 764	1 930	1 459	1 524	147	209	158	197
Relocatable Classroom	376	865	262	569	87	222	27	74

TABLE 6

PUBLIC SCHOOL BUILDINGS BY TYPE OF SERVICE SYSTEM
1988-89

TYPE OF SYSTEM	TOTAL		ELEMENTARY		SECONDARY		ELEMENTARY/SECONDARY	
	BUILDINGS	PUPILS HOUSED	BUILDINGS	PUPILS HOUSED	BUILDINGS	PUPILS HOUSED	BUILDINGS	PUPILS HOUSED
Heating	3 260	1 675 321	2 001	771 796	831	645 490	428	258 035
Oil	932	444 790	627	225 341	183	148 298	122	71 151
Gas	1 190	576 704	742	275 766	312	223 783	136	77 155
Coal	247	117 642	161	57 273	54	40 598	32	19 771
Electricity	334	192 479	176	84 001	103	72 018	55	36 460
Wood	1	568	1	568	0	0	0	0
Combination of Sources	556	343 138	294	128 847	179	160 793	83	53 498
Ventilation	3 260	1 675 321	2 001	771 796	831	645 490	428	258 035
Mechanical	2 710	1 430 264	1 653	650 187	689	553 195	368	226 882
Gravity	37	11 742	28	7 644	5	2 194	4	1 904
Window Only	58	16 760	48	12 549	9	3 174	1	1 037
Mixed	455	216 555	272	101 416	128	86 927	55	28 212

APPENDIX A

GLOSSARY

BUILDING RATING - A rating which utilizes the classifications of excellent, good, fair, and poor and is determined by the chief school administrator.

ELEMENTARY BUILDING - A building that houses or provides instructional space for pupils in kindergarten through grade 6.

ELEMENTARY/SECONDARY BUILDING - A building that houses both elementary and secondary level pupils.

INSTRUCTION ROOM - A room which can be classified as a regular classroom, kindergarten room, special education classroom, science classroom/lecture, earth-space lab, biology lab, chemistry lab, physics lab, business classroom, business lab, typing room, office practice room, computer lab, art room, music room, homemaking, and vocational agriculture shop with classroom.

PUPILS HOUSED - The total number of elementary and/or secondary pupils housed in the building for one or more periods per day at least once a week. Included are regular elementary/secondary pupils, kindergarten pupils, elementary/secondary pupils in special education classes, postgraduate pupils, and elementary/secondary pupils housed in classrooms that are currently used by other local education agencies. Not included are day care pupils housed or any adult students enrolled in secondary level programs.

SCHOOL BUILDING - One continuous enclosed structure that may or may not be connected with other structures by passageways. Included is the structure itself together with all the supporting mechanical, electrical, life safety, environmental, and other built-in systems and equipment attached to the structure.

SECONDARY BUILDING - A building that houses or provides instructional space for pupils in grades 7 through 12.

VENTILATION SYSTEMS:

Gravity - A system that uses vents or ducts leading outside the building for exhaust. The exhaust ducts may or may not have heat coils in the shaft or turbine heads on top of the vent stacks to accelerate the gravity flow.

Mechanical - An exhaust system which uses fans to pull air from rooms to the out-of-doors. This system may exhaust the air directly to the out-of-doors, through a system of ducts leading to a plenum chamber and then out-of-doors, or to corridors and then out-of-doors by means of corridor ceiling exhaust fans. A mechanical supply system uses fan-forced unit ventilators or a central fan with ducts to force air into the rooms; such a system builds up a slight air pressure that forces air from the rooms.

Mixed - Any combination of systems which are considered essential to the welfare of the occupants of the building.

Window Only - A system that uses open windows to admit fresh air and does not have definite provisions, either gravity or mechanical, for exhaust.

APPENDIX B

SOURCES

1. School Building Change Report (PDE-1021)
2. School Building Record (PDE-1522)

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Colleges and Universities

Faculty and Staff
1988-89

DDS
Data Series

Pennsylvania Department of Education 1989

Colleges and Universities

Faculty and Staff
1988-89

This is one in a series of publications containing statistical summaries related to basic education, postsecondary education, and vocational education in Pennsylvania. For more detailed data, contact the Division of Data Services at (717) 787-2644.

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Terry Dellmuth, Acting Secretary

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Compiled by: Donald D.Deitz, Educational Statistics Associate

July 1989

Pennsylvania Department of Education
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HIGHLIGHTS

* The average salary for selected faculty ranks (professor, associate professor, assistant professor, and instructor) on 9-month contracts rose by 76.6 percent since 1979-80.

* Since the 1987-88 academic year, the average salary for the selected faculty ranks on 9-month contracts rose by 5.9 percent.

* The average salary for the selected faculty ranks on 9-month contracts at the state-related commonwealth universities was $40,411, highest of the three categories of public institutions, and $49,344 at the private state-aided institutions, highest of any category of private institutions.

* A total of 182.6 million dollars was spent on fringe benefits for full-time instructional faculty on 9-month contracts. This is an increase of 5.1 percent over the reported expenditures for 1987-88.

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OVERVIEW

The average salaries of full-time instructional faculty on contracts of nine months for selected ranks (professor, associate professor, assistant professor, and instructor) increased by 76.6 percent from $21,834 in 1979-80 to $38,561 in 1988-89. For the period 1987-88 to 1988-89, the increase was 5.9 percent. While the average public sector salary rose by 70.1 percent from 1979-80 to 1988-89, the average private sector salary increased by 84.5 percent.

From 1987-88 to 1988-89, the increase in average salaries for full-time instructional faculty on contracts of nine months (all ranks) was the largest at private junior colleges with a growth rate of 7.9 percent ($21,908 to $23,638). Increases were also recorded at the rate of 6.6 percent at state-related commonwealth universities, 6.1 percent at private colleges and universities, 5.4 percent at private state-aided institutions, 5.3 percent at state universities and community colleges, and 2.1 percent at theological seminaries.

A 4.3 percent increase in average salaries was reported for the full-time instructional faculty on twelve-month contracts (all ranks). This figure was derived from the change in average salaries from $44,076 in 1987-88 to $45,973 in 1988-89.

In 1979-80, 41.3 percent of the expenditures for fringe benefits for full-time instructional faculty employed on a contract of nine months were for retirement plans. By 1988-89, retirement plans accounted for only 37.2 percent of these expenditures. Over the 1979-80 to 1988-89 period, medical/dental benefits generally accounted for an increasingly larger portion of fringe benefit costs, increasing from 15.6 percent to 21.7 percent.

For the 10-year period ending in 1988-89, expenditures for fringe benefits increased by 119.2 percent. By benefit, expenditures increased as follows: retirement, up 97.3 percent; social security, up 134.6 percent; medical/dental, up 205.6 percent; and all other which includes: guaranteed disability income, tuition and housing plans, unemployment compensation taxes, group life insurance, workmen's compensation taxes, and other benefits in kind with cash options, up 74.5 percent.

The summary below provides a look at the distribution of the 1988-89 expenditures paid for fringe benefits for faculty on nine month contracts.

Fringe Benefit	Amount
Total	$182,619,392
Retirement Plans	67,955,349
Social Security	48,299,687
Medical/Dental Plans	39,624,678
Other	26,739,678

TABLE 1

AVERAGE SALARIES OF FULL-TIME INSTRUCTIONAL FACULTY EMPLOYED ON A CONTRACT OF 9 MONTHS FOR SELECTED RANKS BY SELECTED INSTITUTIONAL CATEGORIES 1979-80 THROUGH 1988-89

	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89
Total, All Institutions	$21 834	$23 337	$25 735	$26 855	$29 192	$30 542	$32 131	-	$36 424	$38 561
Total, Public Institutions	22 780	24 683	26 232	27 773	28 936	30 447	31 797	-	36 500	38 751
State Universities	24 886	26 181	27 770	29 120	29676	31 010	31 583	-	36 860	38 802
State-Related Commonwealth Universities	22 186	24 045	26 183	27 834	29 520	31 170	33 098	-	37 866	40 411
Community Colleges	18 980	20 076	22 475	24 237	25 940	27 502	29 356	-	32 700	34 392
Total, Private Institutions	20 780	22 210	25 143	25 765	29 493	30 654	32 522	-	36 237	38 334

NOTE: 1. The selected ranks are professor, associate professor, assistant professor, and instructor.

2. A dash (-) indicates "data not available."

TABLE 2

FRINGE BENEFITS AS A PERCENTAGE OF THE TOTAL SALARY OF FULL-TIME INSTRUCTIONAL FACULTY EMPLOYED ON A CONTRACT OF 9 MONTHS 1979-80 THROUGH 1988-89

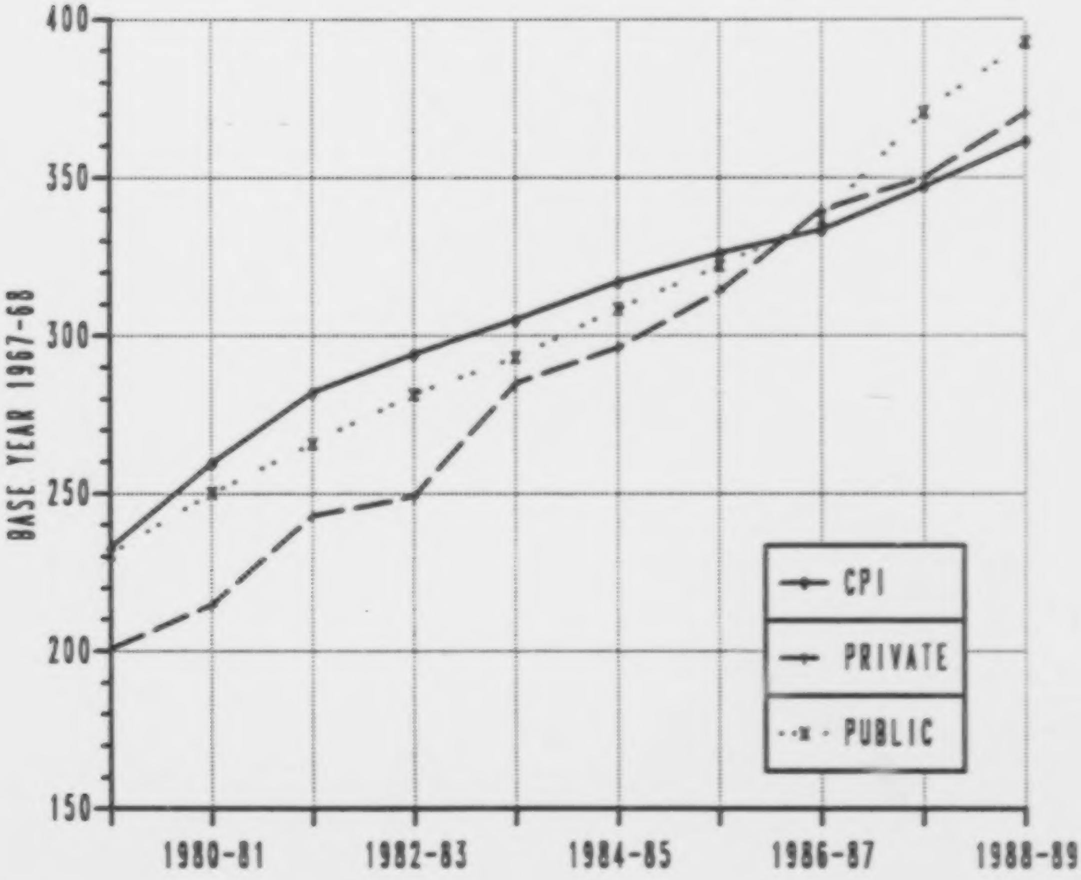
(In Millions of Dollars)

	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89
Total Salary Expenditure	$381.0	$406.0	$457.6	$455.9	$521.0	$562.6	$592.5	-	$690.3	$752.0
Total Fringe Benefit Expenditure	$ 3.3	$ 93.7	$109.4	$116.5	$131.9	$150.5	$158.3	-	$173.7	$182.6
Percentage	21.9	23.1	24.0	25.6	25.3	26.8	26.7	-	25.2	24.3

NOTE: A dash (-) indicates "data not available."

FIGURE 1

INDEX OF AVERAGE SALARIES OF FULL-TIME INSTRUCTIONAL FACULTY (9-MONTH CONTRACTS) VS. THE CONSUMER PRICE INDEX 1979-80 THROUGH 1988-89

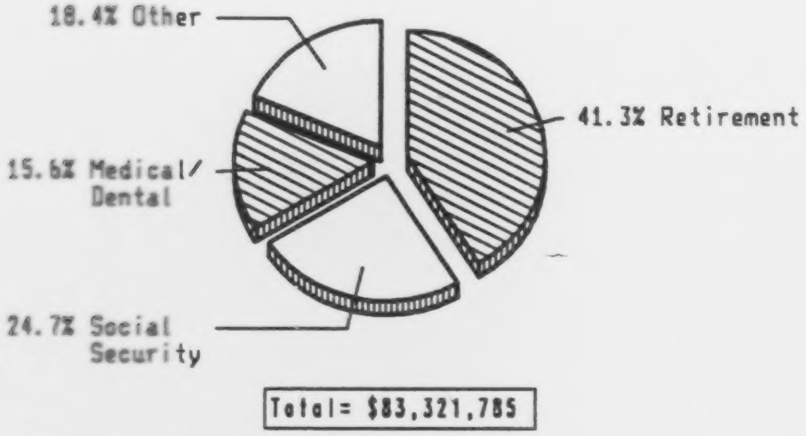


NOTE: 1. Includes only professor, associate professor, assistant professor and instructor.

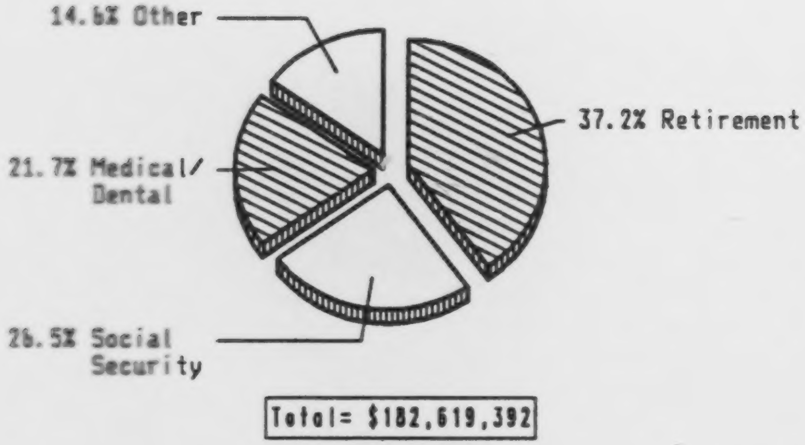
2. 1986-87 data estimated.

FIGURE 2

FRINGE BENEFIT EXPENDITURES FOR FULL-TIME INSTRUCTIONAL FACULTY (9-MONTH CONTRACTS)



1979-80



1988-89

TABLE 3

AVERAGE SALARIES OF FULL-TIME INSTRUCTIONAL FACULTY BY CONTRACT LENGTH, RANK, AND INSTITUTIONAL CATEGORY
1988-89

	9 MONTHS		12 MONTHS	
	NUMBER	AVERAGE SALARY	NUMBER	AVERAGE SALARY
PROFESSORS				
STATE UNIVERSITIES	1,573	$ 47,566	9	$ 61,837
STATE-RELATED COMMONWEALTH UNIVERSITIES	1,264	55,064	307	67,981
COMMUNITY COLLEGES	543	39,052	7	42,706
PRIVATE STATE-AIDED INSTITUTIONS	731	63,635	20	54,410
PRIVATE COLLEGES AND UNIVERSITIES	2,046	46,995	90	59,956
THEOLOGICAL SEMINARIES	40	36,412	36	33,397
PRIVATE JUNIOR COLLEGES	41	29,755	2	26,892
RANK TOTAL	6,238	49,851	471	62,560
ASSOCIATE PROFESSORS				
STATE UNIVERSITIES	1,395	38,725	11	50,090
STATE-RELATED COMMONWEALTH UNIVERSITIES	1,263	40,424	257	50,084
COMMUNITY COLLEGES	619	35,146	22	44,455
PRIVATE STATE-AIDED INSTITUTIONS	445	42,914	43	43,027
PRIVATE COLLEGES AND UNIVERSITIES	2,031	35,341	80	44,099
THEOLOGICAL SEMINARIES	9	31,771	17	30,119
PRIVATE JUNIOR COLLEGES	43	25,306	5	23,453
RANK TOTAL	5,805	37,740	435	46,915
ASSISTANT PROFESSORS				
STATE UNIVERSITIES	1,230	31,009	18	40,796
STATE-RELATED COMMONWEALTH UNIVERSITIES	1,353	32,669	212	39,794
COMMUNITY COLLEGES	393	31,480	22	37,709
PRIVATE STATE-AIDED INSTITUTIONS	463	36,359	32	36,652
PRIVATE COLLEGES AND UNIVERSITIES	2,349	29,398	83	34,514
THEOLOGICAL SEMINARIES	8	27,707	14	25,879
PRIVATE JUNIOR COLLEGES	59	22,027		
RANK TOTAL	5,855	31,106	381	37,796
INSTRUCTORS				
STATE UNIVERSITIES	279	24,123	9	27,791
STATE-RELATED COMMONWEALTH UNIVERSITIES	498	24,222	107	26,967
COMMUNITY COLLEGES	164	23,096	18	23,925
PRIVATE STATE-AIDED INSTITUTIONS	66	25,503	19	30,563
PRIVATE COLLEGES AND UNIVERSITIES	431	23,317	25	27,223
THEOLOGICAL SEMINARIES	2	24,785	3	10,551
PRIVATE JUNIOR COLLEGES	42	18,527	4	21,164
RANK TOTAL	1,482	23,712	185	26,723
LECTURERS				
STATE-RELATED COMMONWEALTH UNIVERSITIES	92	23,988	33	36,992
COMMUNITY COLLEGES	5	24,672	11	30,192
PRIVATE STATE-AIDED INSTITUTIONS	28	23,343		
PRIVATE COLLEGES AND UNIVERSITIES	49	23,146		
THEOLOGICAL SEMINARIES			1	25,116
RANK TOTAL	174	23,666	45	35,066
NO ACADEMIC RANK				
STATE-RELATED COMMONWEALTH UNIVERSITIES	5	20,095	67	32,448
COMMUNITY COLLEGES			3	27,520
PRIVATE COLLEGES AND UNIVERSITIES	17	26,863	12	52,500
PRIVATE JUNIOR COLLEGES	2	17,176	7	21,535
RANK TOTAL	24	24,646	89	34,127
ALL RANKS				
STATE UNIVERSITIES	4,477	38,802	47	44,510
STATE-RELATED COMMONWEALTH UNIVERSITIES	4,475	40,051	983	49,296
COMMUNITY COLLEGES	1,724	34,364	83	35,565
PRIVATE STATE-AIDED INSTITUTIONS	1,733	48,924	114	41,158
PRIVATE COLLEGES AND UNIVERSITIES	6,923	35,913	290	45,170
THEOLOGICAL SEMINARIES	59	34,130	71	30,047
PRIVATE JUNIOR COLLEGES	187	23,638	18	22,581
TOTAL	19,578	38,412	1,606	45,973

TABLE 4

AVERAGE SALARIES OF FULL-TIME INSTRUCTIONAL FACULTY BY CONTRACT LENGTH, RANK, SEX, AND INSTITUTIONAL CATEGORY 1988-89

	9 MONTHS				12 MONTHS			
	MEN		WOMEN		MEN		WOMEN	
	NUMBER	AVERAGE SALARY	NUMBER	AVERAGE SALARY	NUMBER	AVERAGE SALARY	NUMBER	AVERAGE SALARY
PROFESSORS								
STATE UNIVERSITIES	1,359	$ 47,607	214	$ 47,308	9	$ 61,837		
STATE-RELATED COMMONWEALTH UNIVERSITIES	1,127	55,848	137	48,611	280	68,341	27	$ 64,239
COMMUNITY COLLEGES	378	40,171	165	36,489	4	43,573	3	41,550
PRIVATE STATE-AIDED INSTITUTIONS	667	64,087	64	58,929	15	52,655	5	59,676
PRIVATE COLLEGES AND UNIVERSITIES	1,789	48,066	257	39,541	74	63,139	16	45,234
THEOLOGICAL SEMINARIES	38	36,540	2	33,980	36	33,397		
PRIVATE JUNIOR COLLEGES	26	30,259	15	28,883	2	26,892		
RANK TOTAL	5,384	50,842	854	43,606	420	63,297	51	56,495
ASSOCIATE PROFESSORS								
STATE UNIVERSITIES	1,062	38,873	333	38,253	8	50,209	3	49,772
STATE-RELATED COMMONWEALTH UNIVERSITIES	1,006	40,977	257	38,259	203	50,582	54	48,214
COMMUNITY COLLEGES	353	36,836	266	32,904	13	44,670	9	44,146
PRIVATE STATE-AIDED INSTITUTIONS	347	43,790	98	39,812	29	43,425	14	42,204
PRIVATE COLLEGES AND UNIVERSITIES	1,556	36,323	475	32,123	59	45,314	21	40,688
THEOLOGICAL SEMINARIES	6	31,564	3	32,184	17	30,119		
PRIVATE JUNIOR COLLEGES	19	25,806	24	24,911	3	24,373	2	22,073
RANK TOTAL	4,349	38,607	1,456	35,150	332	47,495	103	45,045
ASSISTANT PROFESSORS								
STATE UNIVERSITIES	682	31,175	548	30,804	15	41,132	3	39,119
STATE-RELATED COMMONWEALTH UNIVERSITIES	937	33,475	416	30,853	128	40,548	84	38,646
COMMUNITY COLLEGES	215	32,814	178	29,858	9	38,051	13	37,472
PRIVATE STATE-AIDED INSTITUTIONS	301	38,485	162	32,409	18	36,429	14	36,939
PRIVATE COLLEGES AND UNIVERSITIES	1,381	30,843	968	27,337	43	36,199	40	32,703
THEOLOGICAL SEMINARIES	6	27,217	2	29,175	12	25,589	2	27,618
PRIVATE JUNIOR COLLEGES	22	22,248	37	21,896				
RANK TOTAL	3,544	32,312	2,311	29,257	225	38,529	156	36,739
INSTRUCTORS								
STATE UNIVERSITIES	102	24,378	177	23,976	4	22,954	5	31,660
STATE-RELATED COMMONWEALTH UNIVERSITIES	271	26,102	227	21,978	48	29,111	59	25,222
COMMUNITY COLLEGES	89	22,185	75	24,176	5	26,690	13	22,861
PRIVATE STATE-AIDED INSTITUTIONS	34	25,396	32	25,616	4	29,725	15	30,786
PRIVATE COLLEGES AND UNIVERSITIES	178	25,063	253	22,089	10	31,387	15	24,447
THEOLOGICAL SEMINARIES	1	25,720	1	23,850	3	10,551		
PRIVATE JUNIOR COLLEGES	9	18,942	33	18,413			4	21,164
RANK TOTAL	684	24,935	798	22,664	74	28,203	111	25,737
LECTURERS								
STATE-RELATED COMMONWEALTH UNIVERSITIES	45	27,974	47	20,171	25	39,507	8	29,133
COMMUNITY COLLEGES	2	24,250	3	24,954	6	27,934	5	32,901
PRIVATE STATE-AIDED INSTITUTIONS	20	25,105	8	18,938				
PRIVATE COLLEGES AND UNIVERSITIES	18	23,545	31	22,914				
THEOLOGICAL SEMINARIES							1	25,116
RANK TOTAL	85	26,273	89	21,177	31	37,267	14	30,192
NO ACADEMIC RANK								
STATE-RELATED COMMONWEALTH UNIVERSITIES	3	22,743	2	16,123	53	32,133	14	33,639
COMMUNITY COLLEGES					1	31,751	2	25,405
PRIVATE COLLEGES AND UNIVERSITIES	7	29,853	10	24,770	9	60,478	3	28,567
PRIVATE JUNIOR COLLEGES			2	17,176	2	24,341	5	20,413
RANK TOTAL	10	27,720	14	22,450	65	35,812	24	29,563
ALL RANKS								
STATE UNIVERSITIES	3,205	40,477	1,272	34,580	36	46,305	11	38,634
STATE-RELATED COMMONWEALTH UNIVERSITIES	3,389	42,470	1,086	32,501	737	52,486	246	39,742
COMMUNITY COLLEGES	1,037	35,936	687	31,991	38	37,638	45	33,814
PRIVATE STATE-AIDED INSTITUTIONS	1,369	51,783	364	38,171	66	42,785	48	38,920
PRIVATE COLLEGES AND UNIVERSITIES	4,929	38,587	1,994	29,303	195	50,054	95	35,144
THEOLOGICAL SEMINARIES	51	34,646	8	30,839	68	30,191	3	26,784
PRIVATE JUNIOR COLLEGES	76	25,487	111	22,372	7	25,083	11	20,988
TOTAL	14,056	40,959	5,522	31,929	1,147	49,339	459	37,562

TABLE 5

PERCENT OF FULL-TIME INSTRUCTIONAL FACULTY WHO HAVE TENURE BY CONTRACT LENGTH, RANK, SEX, AND INSTITUTIONAL CATEGORY
1988-89

	9 MONTHS				12 MONTHS			
	MEN		WOMEN		MEN		WOMEN	
	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
PROFESSORS								
STATE UNIVERSITIES	1,359	96.9	214	96.3	9	100.0		0.0
STATE-RELATED COMMONWEALTH UNIVERSITIES	1,127	96.7	137	100.0	280	93.2	27	96.3
COMMUNITY COLLEGES	378	92.1	165	90.3	4	75.0	3	100.0
PRIVATE STATE-AIDED INSTITUTIONS	667	99.0	64	98.4	15	60.0	5	20.0
PRIVATE COLLEGES AND UNIVERSITIES	1,789	94.9	257	89.9	74	64.9	16	56.3
THEOLOGICAL SEMINARIES	38	84.2	2	100.0	36	91.7		0.0
PRIVATE JUNIOR COLLEGES	26	61.5	15	46.7	2	50.0		0.0
RANK TOTAL	5,384	95.9	854	93.1	420	86.7	51	76.5
ASSOCIATE PROFESSORS								
STATE UNIVERSITIES	1,062	84.0	333	73.9	8	50.0	3	33.3
STATE-RELATED COMMONWEALTH UNIVERSITIES	1,006	87.4	257	90.3	203	78.3	54	64.8
COMMUNITY COLLEGES	353	87.5	266	83.1	13	84.6	9	77.8
PRIVATE STATE-AIDED INSTITUTIONS	347	84.7	98	77.6	29	58.6	14	42.9
PRIVATE COLLEGES AND UNIVERSITIES	1,556	78.7	475	75.6	59	61.0	21	61.9
THEOLOGICAL SEMINARIES	6	33.3	3	33.3	17	17.6		0.0
PRIVATE JUNIOR COLLEGES	19	47.4	24	58.3	3	33.3	2	0.0
RANK TOTAL	4,349	83.0	1,456	78.9	332	69.6	103	60.2
ASSISTANT PROFESSORS								
STATE UNIVERSITIES	682	46.6	548	44.7	15	33.3	3	33.3
STATE-RELATED COMMONWEALTH UNIVERSITIES	937	24.2	416	13.7	128	11.7	84	4.8
COMMUNITY COLLEGES	215	77.7	178	59.0	9	66.7	13	76.9
PRIVATE STATE-AIDED INSTITUTIONS	301	5.3	162	8.0	18	0.0	14	0.0
PRIVATE COLLEGES AND UNIVERSITIES	1,381	19.3	968	16.1	43	44.2	40	20.0
THEOLOGICAL SEMINARIES	6	66.7	2	50.0	12	0.0	2	0.0
PRIVATE JUNIOR COLLEGES	22	22.7	37	10.8		0.0		0.0
RANK TOTAL	3,544	28.3	2,311	25.1	225	20.0	156	14.7
INSTRUCTORS								
STATE UNIVERSITIES	102	12.7	177	9.0	4	0.0	5	20.0
STATE-RELATED COMMONWEALTH UNIVERSITIES	271	0.4	227	0.9	48	2.1	59	1.7
COMMUNITY COLLEGES	89	34.8	75	21.3	5	0.0	13	0.0
PRIVATE STATE-AIDED INSTITUTIONS	34	0.0	32	0.0	4	0.0	15	0.0
PRIVATE COLLEGES AND UNIVERSITIES	178	0.6	253	2.4	10	0.0	15	0.0
THEOLOGICAL SEMINARIES	1	0.0	1	0.0	3	66.7		0.0
PRIVATE JUNIOR COLLEGES	9	33.3	33	9.1		0.0	4	0.0
RANK TOTAL	684	7.2	798	5.4	74	4.1	111	1.8

TABLE 6

NUMBER OF EMPLOYEES BY OCCUPATIONAL ACTIVITY AND EMPLOYMENT STATUS BY INSTITUTIONAL CATEGORY 1987-88

INSTITUTIONAL CATEGORY	ALL OCCUPATIONAL CATEGORIES			EXECUTIVE, ADMINISTRATIVE AND MANAGERIAL		INSTRUCTIONAL FACULTY		OTHER PROFESSIONAL		NON-PROFESSIONAL	
	TOTAL	FULL TIME	PART TIME	FULL TIME	PART TIME	FULL TIME	PART TIME	FULL TIME	PART TIME	FULL TIME	PART TIME
STATE UNIVERSITIES	10,294	9,475	819	694	19	4,506	464	554	146	3,721	190
STATE-RELATED COMMONWEALTH UNIVERSITIES	37,925	28,724	9,201	1,819	16	7,522	5,630	6,999	1,076	12,384	2,479
COMMUNITY COLLEGES	8,893	4,697	4,196	716	123	1,838	3,564	268	108	1,875	401
PRIVATE STATE-AIDED INSTITUTIONS	25,538	21,908	3,630	2,076	44	4,401	1,933	4,420	384	11,011	1,269
PRIVATE COLLEGES AND UNIVERSITIES	25,820	18,913	6,907	2,339	121	6,292	4,470	1,981	569	8,301	1,747
THEOLOGICAL SEMINARIES	624	418	206	91	10	127	97	25	12	175	87
PRIVATE JUNIOR COLLEGES	1,181	798	383	106	1	214	196	128	49	350	137
TOTAL	110,275	84,933	25,342	7,841	334	24,900	16,354	14,375	2,344	37,817	6,310

NOTE: 1. Instructional Faculty includes Instruction/Research Assistants.

2. Data not available for 1988-89.

APPENDIX A

GLOSSARY

AVERAGE--A value which is typical or representative of a set of data. In this report, average has been used synonymously with mean.

EXECUTIVE, ADMINISTRATIVE, MANAGERIAL--Employees who exercise primary responsibility for the management of the institution, or of a customarily recognized department or subdivision thereof.

INSTRUCTIONAL FACULTY--Instruction/research staff whose major regular assignment is instruction, including those with released time for research. Does not include data relating to instructional faculty who teach preclinical or clinical medicine, who are members of a religious order, or who teach in the R.O.T.C. program.

INSTRUCTION/RESEARCH ASSISTANTS--Individuals employed for the primary purpose of assisting in classroom or laboratory instruction or in the conduct of research.

NONPROFESSIONAL--Includes individuals employed in the fields of technical and paraprofessionals, clerical and secretarial, skilled crafts, and service/maintainence.

OTHER PROFESSIONAL--Individuals employed for the primary purpose of performing academic support, student service, and institutional support activities, whose assignments would require either college graduation or experience of such kind and amount as to provide a comparable background.

PRIVATE CONTROL--Institutions listed in the following categories: the private state-aided institutions, the private colleges and universities, the theological seminaries, and the private junior colleges.

PUBLIC CONTROL--Institutions listed in the following categories: the state universities, the state-related commonwealth universities, and the community colleges.

TENURE--Permanence of position. Each institution sets their criteria for tenure.

APPENDIX B

SOURCES

1. Salaries, Tenure, and Fringe Benefits of Full-Time Instructional Faculty (ED G50-14-P-SA)
2. Fall Staff (ED G50-14P-S)

APPENDIX C

NONRESPONDING INSTITUTIONS

Combs College of Music

Grove City College

Moore College of Art

Theological Seminary of the Reformed
Episcopal Church